

**PRELIMINARY ASSESSMENT
FOR
DIAZ INTERMEDIATES CORPORATION
AFIN No. 18-00401
WEST MEMPHIS, CRITTENDEN COUNTY, ARKANSAS**

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1.0 INTRODUCTION

Under authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 and the Superfund Amendments and Reauthorization Act (SARA) of 1986, the Arkansas Department of Environmental Quality (ADEQ), Hazardous Waste Division, conducted a Preliminary Assessment (PA) at the Diaz Intermediates Facility located in West Memphis, Crittenden County, Arkansas. The AFIN for the Diaz Intermediates site is 18-00401. The Environmental Protection Agency (EPA) Resource, Conservation and Recovery Act (RCRA) number for the site is ARR000005843.

1.1 Project Objectives

The purpose of this assessment was to collect information on the site, assess the threat posed to human health and the environment, and determine the need for additional investigation under CERCLA/SARA or other appropriate action.

1.2 Project Scope

The scope of the investigation included a review of available file information, a comprehensive target survey, and on site and off site reconnaissance.

2.0 SITE BACKGROUND

2.1 Site Location and Setting

The Diaz Intermediates site is located in the city of West Memphis in Crittenden County, Arkansas. The site is located at 301 Wyanoke Road in the southern part of West Memphis. The land use around the site is a mixture of residential, commercial and agricultural properties. Due to socio-economic conditions in the general area of the Diaz Intermediates facility, care should be taken to ensure environmental justice.

2.2 Site Description

The Diaz Intermediates site covers a total area of approximately three (3) acres. The use of the property before being utilized as an industrial site was primarily agriculture. The facility began operation in 1998. Two (2) large buildings, two (2) double-wide trailers, two (2) tank farms, and several concrete pads used for storage and loading of drums and other containers are present on the site. One (1) large building houses the process area and the other building houses the boiler room, shop, and warehouse. The trailers on the site house the offices, break room, locker room, and the lab. Other structures on the site include a master control center, a storm shelter, and the cooling tower and chiller. There is also a rail spur on the site. Areas of the site that are not covered with concrete are gravel or ground surface with vegetation. All equipment and machinery for operations at the site are still present. The site is completely fenced with a lock on the front gate. An inspection of the site on February 28, 2008 indicated trespassers had been on the site. The chain to the front gate had been cut next to the lock so that from a distance it appeared to be locked. The site is vulnerable to trespass and vandalism.

2.3 Site Ownership History

The site is currently owned by Thomas Belk. The site is currently in bankruptcy. EPA Region 6 personnel are currently assessing the site for a removal action. The facility is currently for sale and according to EPA Region 6 personnel there has been interest in the site.

Operations began at the site in 1998. Operations ceased at the site in late 2007 when the business declared bankruptcy. Ownership of the property prior to the current owner is not known. The site is located in an area with additional industrial facilities and property that is still used for agriculture.

2.4 Site Operations and Waste Characteristics

Diaz Intermediates Corporation was a supplier of high purity halogenated fine organic chemicals which are principally used as intermediates in the manufacture of products sold by the life sciences industry. The plant in West Memphis, AR manufactured a line of brominated products. The basic product line included bromobenzene, the three isomers of dibromobenzene and the brominated isomers of fluorobenzene, chlorobenzene, toluene, xylene and anisole. These products were processed further into bromophenols, fluoroanisoles and fluorophenols. Brominated lower alkyls and 2-bromopyridine were also produced. The facility has the capacity to manufacture and inventory products on a multi-ton scale.

2.4.1 Historical Waste Management Practices

The Diaz Intermediates site is listed as a Large Quantity Generator (LQG) of hazardous wastes. A Resource, Conservation and Recovery Act (RCRA) Site Detail report indicates approximately 144 tons of hazardous wastes were shipped from the site. EPA waste codes for the hazardous waste include D001, D002, D018, D026, D039, D040, F002 and F003.

2.4.2 Regulatory Compliance

State records indicate two (2) permits were issued for the operations at the Diaz Intermediates facility. An air permit (# 1743-A) was issued for the facility in 1997 and a storm water permit (# ARR00C042) also existed for the site. A RCRA hazardous waste Compliance Evaluation Inspection (CEI) was conducted at the site in 2001. Five (5) secondary violations were found during the CEI:

- The date upon which each period of accumulation begins must be clearly marked and visible for inspection on each hazardous waste container.
- While being accumulated on-site, each hazardous waste container and tank must be labeled or marked clearly with the words, "Hazardous Waste."
- The owner or operator must maintain aisle space to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of facility operation in an emergency.
- The contingency plan must list names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator and this list must be kept up to date.

- A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste.

The Comprehensive Compliance Monitoring and Enforcement Report indicates the secondary violations were brought into compliance on April 23, 2001.

2.5 Characterization of Potential Contamination Sources

Past operations at the site involved the mixing of organic chemicals to produce chemical intermediate products. The facility has the capacity to manufacture and inventory products on a multi-ton scale. Potential contamination sources include spillage from site operations and also leakage from damaged or corroded containers and piping. Due to past operations, it is likely waste is present on the site. There are currently several hundred 55 gallon drums, 5 gallon pails, above ground storage tanks and other containers on site.

2.5.1 Potential Contaminant Source Descriptions

Potential contaminant sources observed during the site inspection include 55 gallon drums, 5 gallon pails, 275 gallon containers, above ground storage tanks and rail way tanker cars. Due to corrosion and standing water, EPA has had to overpacked 23 drums and replace approximately 70 bungs on other drums. The process area on site is also a potential contaminant source due to spillage and leakage during the mixing of chemicals and corroded piping.

2.5.2 Evidence of Hazardous substance, pollutant, or contaminant

The site is abandoned and operations have ceased. The facility is still intact with all process equipment still present. There is still a very large quantity of chemicals present on site in various containers. Evidence of contamination on the site has been verified by EPA Region 6 from storm water samples collected in January of 2008. Chemicals used in the manufacturing were found in the storm water samples collected. Figure 6 shows the locations where samples were collected and the results of the samples can be found in Appendix A of this report.

2.5.3 Source Containment Features

Containment features exist around the two (2) tank farms on the site and also the drum pads. Standing water was observed during the site inspection in the containment features due to heavy rainfall in the area.

2.5.4 Waste Quantity or Source Size

EPA Region 6 has compiled an estimated container inventory for the site. Sources on the site are primarily the chemicals used in the processes that occurred at the facility. Estimates of the source size are approximately 215,935 gallons in a total of approximately 2,612 containers. A detailed listing of the estimated container inventory can be found in Appendix B of this report.

3.0 MIGRATION/EXPOSURE PATHWAYS AND TARGETS

3.1 Ground Water Migration Pathway

Residents in the area of Diaz Intermediates are served by the City of West Memphis water system. The water system operates within and, to a limited extent, outside the corporate boundaries of the City. The water supply is obtained from two well fields containing five wells which can supply an aggregate of approximately 14.4 million gallons per day. Shallow ground water in the area of the site can be found at approximately 30 feet below ground surface (bgs).

3.1.1 Local Geology and Hydrologic Setting

The geological deposits on the surface of Crittenden County are alluvium from the Mississippi River and these deposits are the parent material of the soils in the county. Total thickness of the sediment exceeds 100 feet. The alluvium is a mixture of minerals from throughout the Mississippi River Basin. It is derived from many kinds of soil, rock, and unconsolidated sediment from more than 24 States.

The land surface of the Diaz Intermediate site lies within the Costal Plain Province. Costal Plain Province Rocks are Mesozoic and Cenozoic (Jurassic to Quaternary) in age. Rocks that range from the unconsolidated to poorly consolidated rocks are found in the Costal Plain Province and alluvial areas. Eastern and northeastern Arkansas is dominated by Quaternary terrace and alluvial deposits with minor exposures of Tertiary units. The unconsolidated Quaternary sediments of eastern Arkansas were deposited by water released during the interglacial phases of the Ice Age.

3.1.2 Releases and Potential Releases to Ground Water

There are no releases or potential releases to ground water suspected or known to exist for the Diaz Intermediates site. No underground storage tanks or other underground structures were found during the site inspection.

3.1.3 Ground Water Migration Pathway Targets

Residences and businesses in the area of the site are served by the City of West Memphis water system. Therefore, few if any targets exist for the ground water migration pathway.

3.1.4 Ground Water Migration Pathway Conclusions

Contamination from the Diaz Intermediates operations does not appear to affect ground water on the site. No underground storage tanks or other underground structures were discovered during the site inspection. Also, there are no documented releases of contamination to ground water.

3.2 Surface Water Migration Pathway

Surface water from the site flows in a northerly direction and empties into an unnamed ditch. The unnamed ditch empties into Ditch 19 flowing in a southwesterly direction. Ditch 19 continues to flow in a southwesterly direction where it empties into Fifteen Mile Bayou for the remainder of the 15-mile Target Distance Limit (TDL).

3.2.1 Hydrologic Setting

The Diaz Intermediates site lies within the surficial Mississippi River Valley alluvial aquifer. This aquifer is composed of 60-140 feet of sand and gravel, grading from coarse gravel at the bottom to fine sand at the top. It is overlain by the Mississippi River Confining Unit, which is composed of 0- 50 feet of fine grained sand, silt, and clay. It is underlain by confining units composed of aquifers and confining units of the Mississippi Embayment, which are less permeable than the surficial alluvial aquifer. The alluvial aquifer is connected hydraulically with several rivers and drainage areas. The Mississippi Embayment Aquifer system is overlain by the surficial Mississippi River Valley alluvial aquifer in Crittenden County. In some places the Mississippi River Valley aquifer system is hydraulically interconnected with aquifers of the Mississippi Embayment aquifer system; in such places, water moves freely between the aquifers.

3.2.2 Releases and Potential Releases to Surface Water

No observed releases to surface water were found during the site inspection. Due to the nature of the processes that were conducted at the facility during operations at the site a potential release to the surface water pathway is high. Storm water samples were collected by EPA Region 6 on January 10, 2008. The sample collected from the drum pad located on the northwest area of the site revealed the presence of bromobenzene, chlorobenzene and toluene. The sample collected from the bulk truck loading pad revealed the presence of bromobenzene, chlorobenzene, chloromethane and toluene. The soils on the site may be contaminated with organic chemicals and other contaminants associated with facility processes.

3.2.3 Surface Water Migration Pathway Targets

Designated uses have been established for streams within 15 miles downstream of the site. These include primary and secondary contact recreation, and perennial and seasonal fisheries. No wetland areas have been identified using USGS 7.5 minute topographic maps within 15 miles downstream of the site within the surface water drainage pathway.

The Arkansas Natural Heritage Commission maintains a database on the status and location of elements of special concern in Arkansas. An element of special concern includes sensitive species, natural communities, or colonial bird-nesting sites. There are three (3) elements of special concern within a four (4) mile radius of this referenced location and eleven (11) elements of special concern within a 15-mile radius of this referenced location. One (1) Federally managed area occurs within a 15-mile radius of the site.

3.2.4 Surface Water Migration Pathway Conclusions

The potential for contamination to the surface water migration pathway is present at the site. A storm water gate is located at the north east corner of the site. Surface flow on the site is to the north. If there are contaminated soils on the Diaz Intermediates site then the potential for that contamination to enter the surface water migration pathway is high.

3.3 Soil Exposure Pathway

The Diaz Intermediates site is located within an area of mixed commercial, residential, and agricultural property. There are no schools or daycares known to exist within 200 feet of the Site.

The site is located on the soil type Dundee series. The soils in this series are on the lower parts of older natural levees and abandoned river channels. These soils formed in stratified beds of loamy sediments. Permeability is moderately slow. In a typical profile, the surface layer is dark grayish brown silt loam about 4 inches thick. This layer consists of a weak, fine, granular structure and is very friable. Below the surface layer is about 21 inches of acidic silt loam

3.3.1 Physical Source Access Conditions

Access to the site is limited, the site is completely fenced with a lock on the front gate. Fencing on the site is in good condition with no holes or gaps observed. An inspection of the site on February 28, 2008 indicated trespassers had been on the site. The chain to the front gate had been cut next to the lock so that from a distance it appeared to be locked. The site is vulnerable to trespass and vandalism.

3.3.2 Actual or Potential Contamination Areas

Potential contamination areas include soils outside the tank farm areas and drum pad areas of the site due to leakage and spillage. Soils located in other areas of the site may be contaminated due to surface runoff.

3.3.3 Soil Exposure Pathway Targets

There are limited soil exposure pathway targets present due to the fact the site is inactive due to bankruptcy and there are no workers present. The site is completely fenced, however, the site is vulnerable to trespass and vandalism.

3.3.4 Soil Exposure Pathway Conclusions

Due to the operations at the site and the length of time Diaz Intermediates was in operation, the potential for contamination in the soil exposure pathway is high. However, the lack of targets on the site indicate the soil exposure pathway would not significantly contribute to the overall scoring for the site.

3.4 Air Migration Pathway

Diaz Intermediates is an industrial site with the outside surface areas being primarily covered with concrete, gravel and vegetation with no apparent dust dispersion. It does not appear the air migration pathway would significantly contribute to the overall scoring for the site.

3.4.1 Climate

The climate in Crittenden County is characterized by hot summers and moderately cool winters. Precipitation is fairly heavy and well distributed throughout the year. The annual precipitation for West Memphis, Arkansas is 50 to 52 inches.

3.4.2 Releases and Potential Releases to Air

Releases or potential releases to air are not suspected for the site. The site is primarily covered with concrete and gravel with no apparent dust dispersion.

3.4.3 Air Migration Pathway Targets

The site is inactive with no workers present on the site. The site is located within a mixed commercial, residential and agricultural area. The site is primarily covered with concrete and gravel with no apparent dust dispersion, therefore, few if any air migration targets exist for the site.

3.4.4 Air Migration Pathway Conclusions

Contamination from the air migration pathway at the Diaz Intermediates site does not appear to pose a threat to human health or the environment. The site is primarily covered with concrete and gravel and dust dispersion is not suspected of being a problem.

4.0 SUMMARY AND CONCLUSIONS

The Diaz Intermediates site is located at 301 Wyanoke Road, West Memphis, Crittenden County, Arkansas. Operations began at the site in 1998 and the site is now inactive due to entering bankruptcy in late 2007. The site is currently owned by Thomas Belk. EPA Region 6 personnel are currently assessing the site for a removal action. The facility is currently for sale and according to EPA Region 6 personnel there has been interest in the site.

Past operations at the site involved the mixing of organic chemicals to produce chemical intermediate products. The facility has the capacity to manufacture and inventory products on a multi-ton scale. Potential contamination sources include spillage from site operations and also leakage from damaged or corroded containers. Due to past operations, it is likely waste is present on the site. There are currently several hundred 55 gallon drums, 5 gallon pails, above ground storage tanks and other containers on site that hold various organic chemicals used in operations at the facility.

The following environmental concerns are present at the site:

- A large quantity of chemicals used in operations at the facility are still on-site.
- Drum pad areas and other storage areas with corroded or leaking containers.
- Surface water contamination from the site due to storm water runoff.
- Leakage of chemicals in the process area due to corrosion of pipes or other vessels.

The site is currently fenced, however, the site is vulnerable to trespass and vandalism. The corrosion of containers and piping at the site indicate a high potential exists for a release. The large amount of chemical product still present at the site pose an imminent threat to human health and the environment. If the facility remains abandoned and inactive, a time critical removal may be warranted to alleviate the high potential for a release.

5.0 REFERENCES

1. Sligh, Terry L., Hazardous Waste Inspector, Arkansas Department of Environmental Quality, Field Logbook #2, 01/29/08.
2. Arkansas Geological Commission, "Geology of Arkansas", Information downloaded from internet site "<http://www.state.ar.us/agc/arageol.htm>."
3. United States Department of Agriculture, Soil Conservation Service, Soil Survey of Crittenden County, Arkansas, 1974.
4. Spatial Climate Analysis Service, Oregon State University, at internet site <http://www.ocs.orst.edu/prism>.
5. Arkansas Department of Pollution Control and Ecology, Regulation 2, Regulation Establishing Water Quality Standards for Surface Waters of the State of Arkansas, October, 2007.
6. Osborne, Cindy, Arkansas Natural Heritage Commission, written correspondence with Terry Sligh, Arkansas Department of Environmental Quality, RE: Elements of Special Concern within a 1, 4, and 15-mile radius of Diaz Intermediates.

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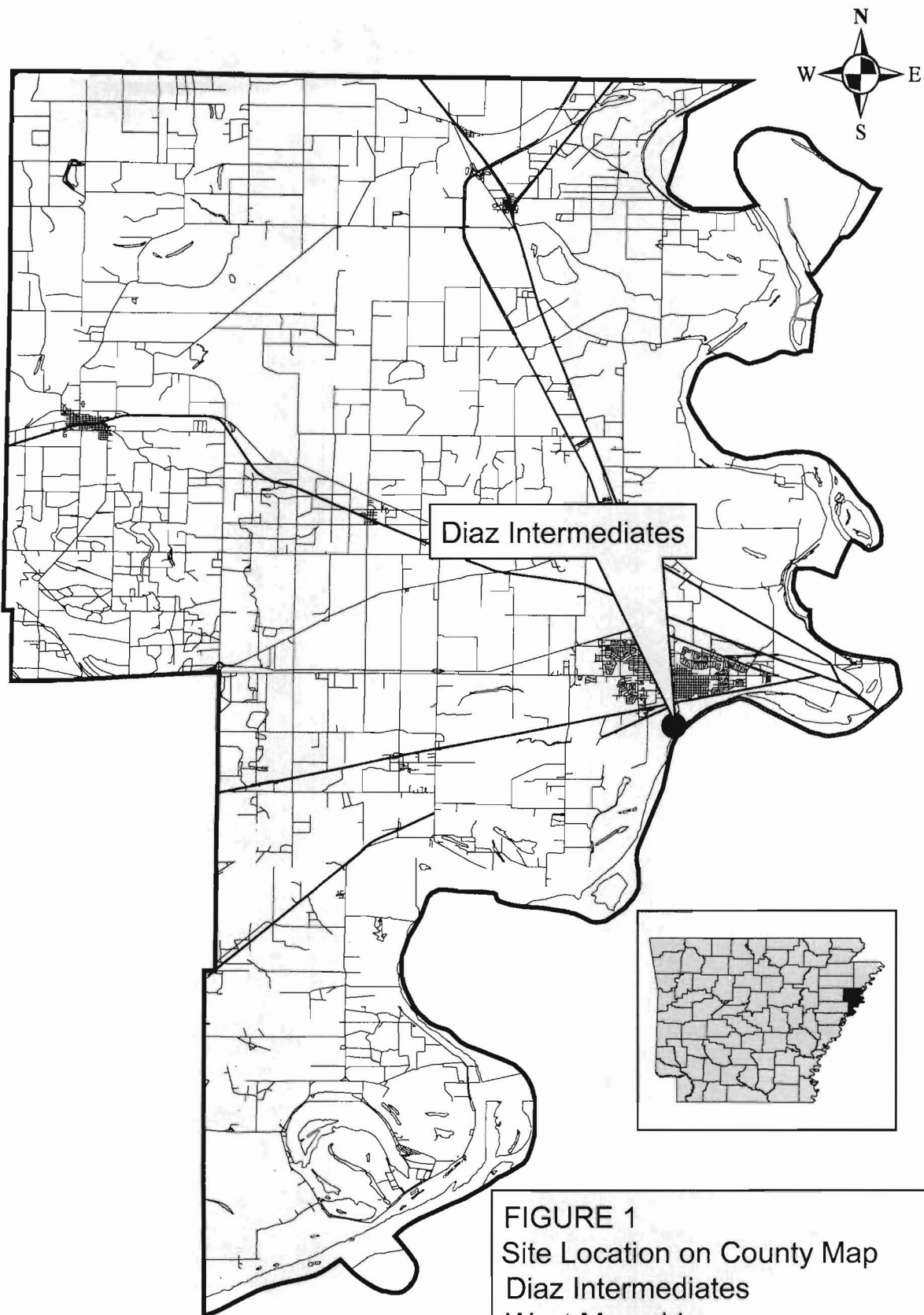


FIGURE 1
Site Location on County Map
Diaz Intermediates
West Memphis
Crittenden County, Arkansas

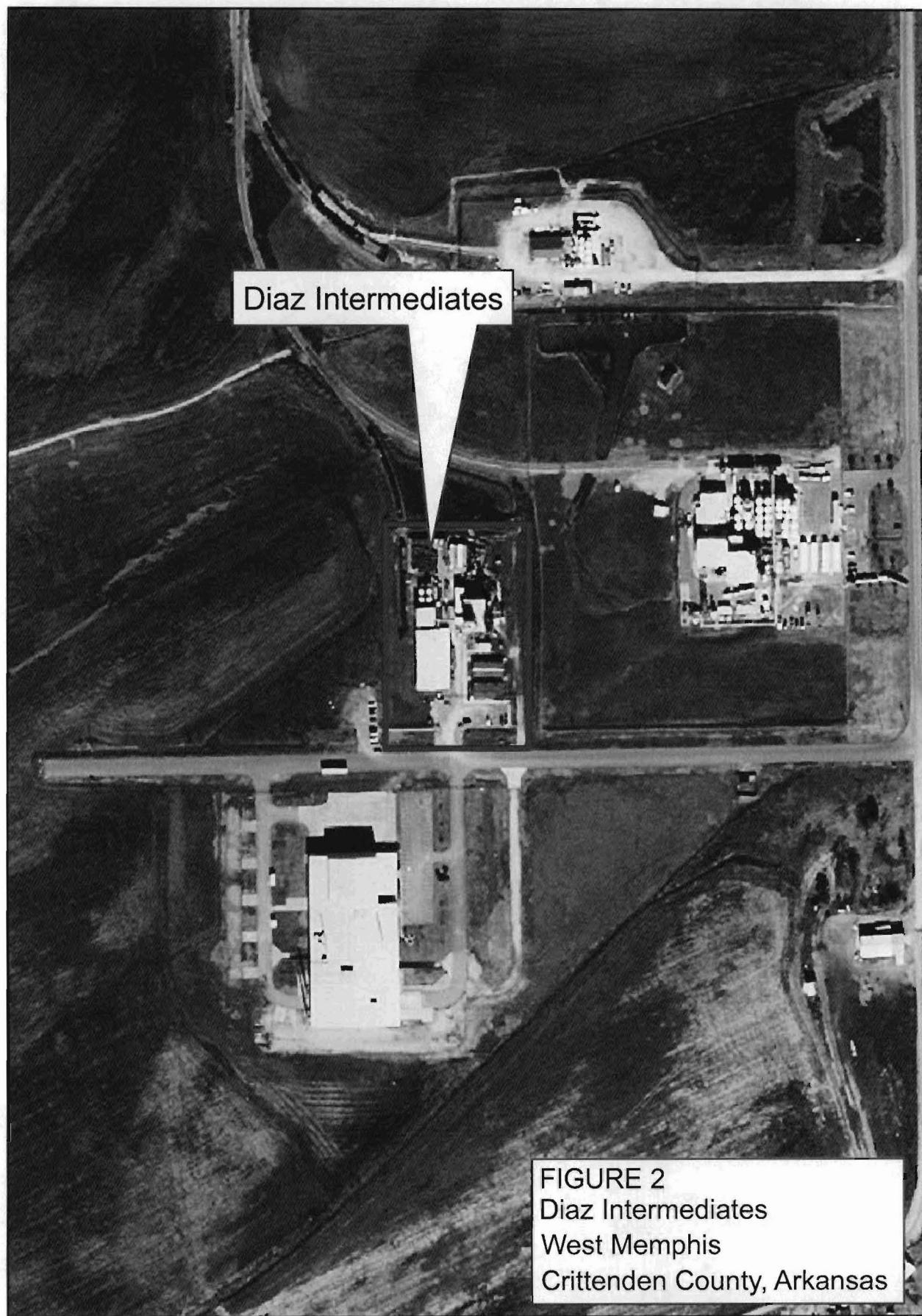
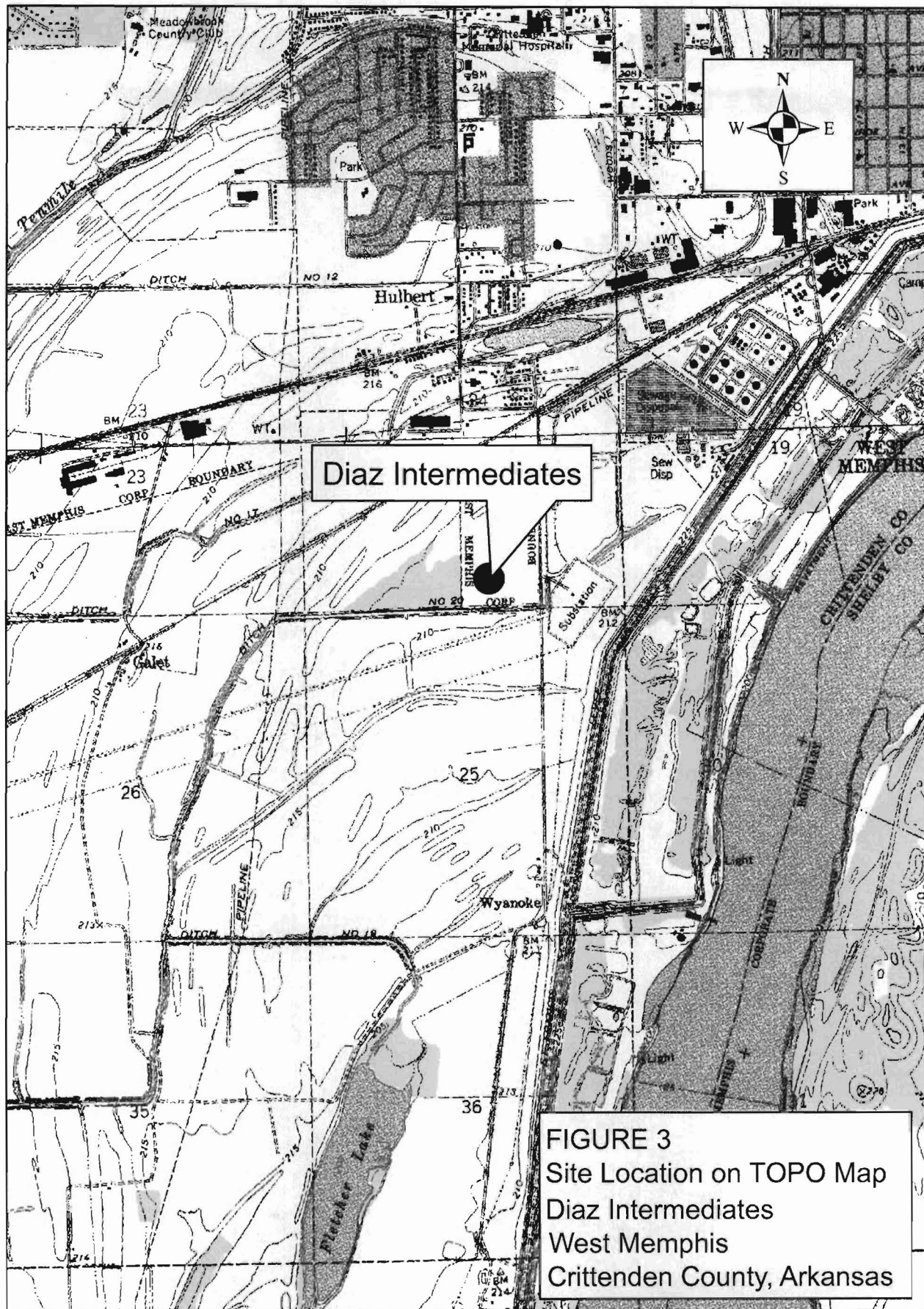
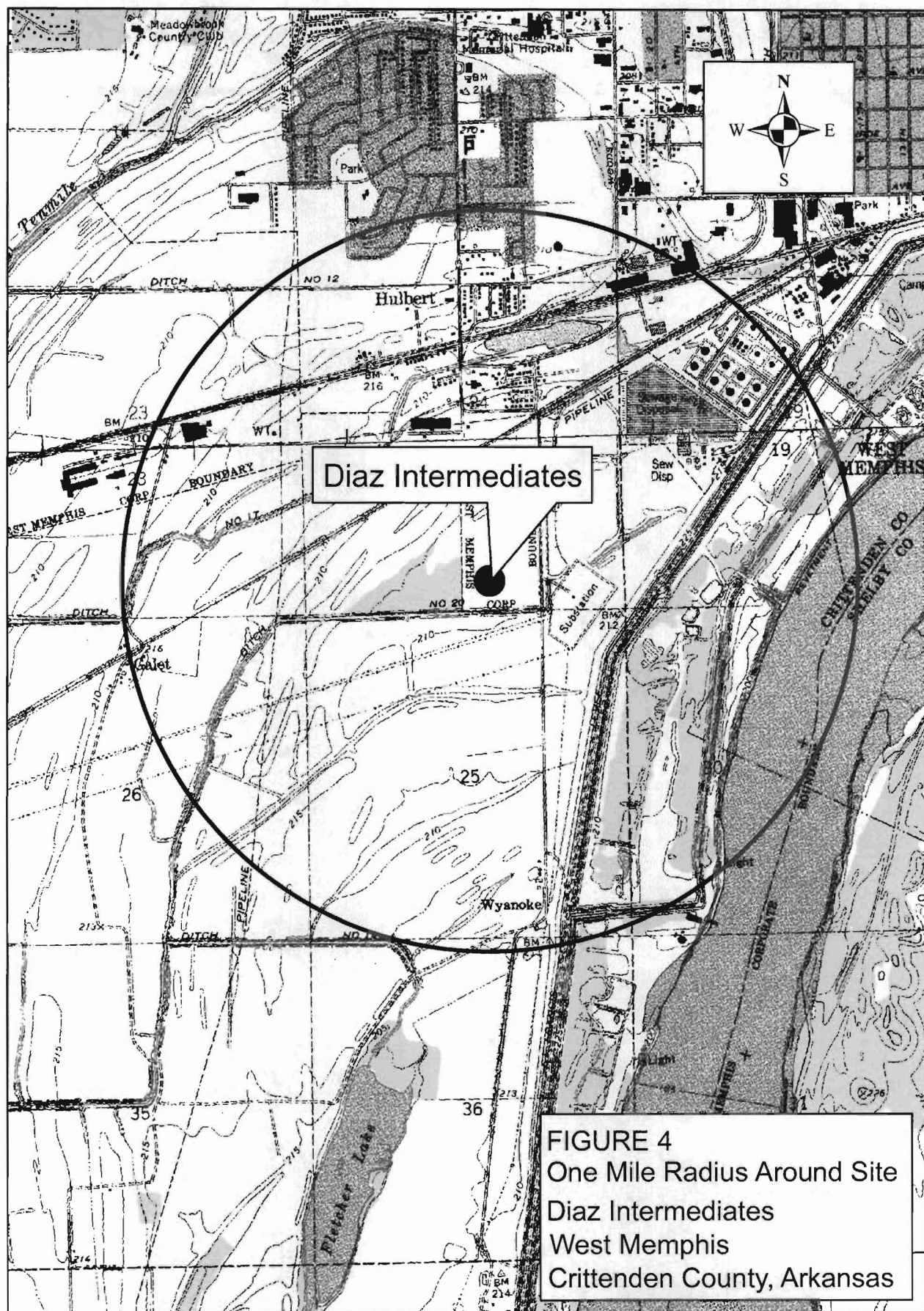


FIGURE 2
Diaz Intermediates
West Memphis
Crittenden County, Arkansas







DIAZ INTERMEDIATES CORPORATION STORM WATER SAMPLE LOCATION MAP

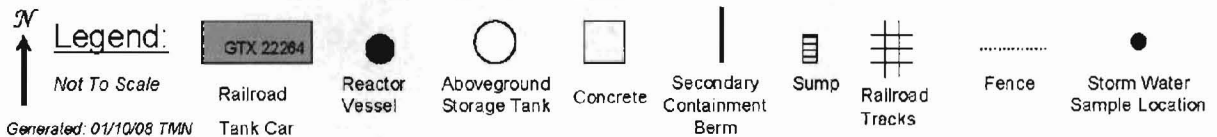
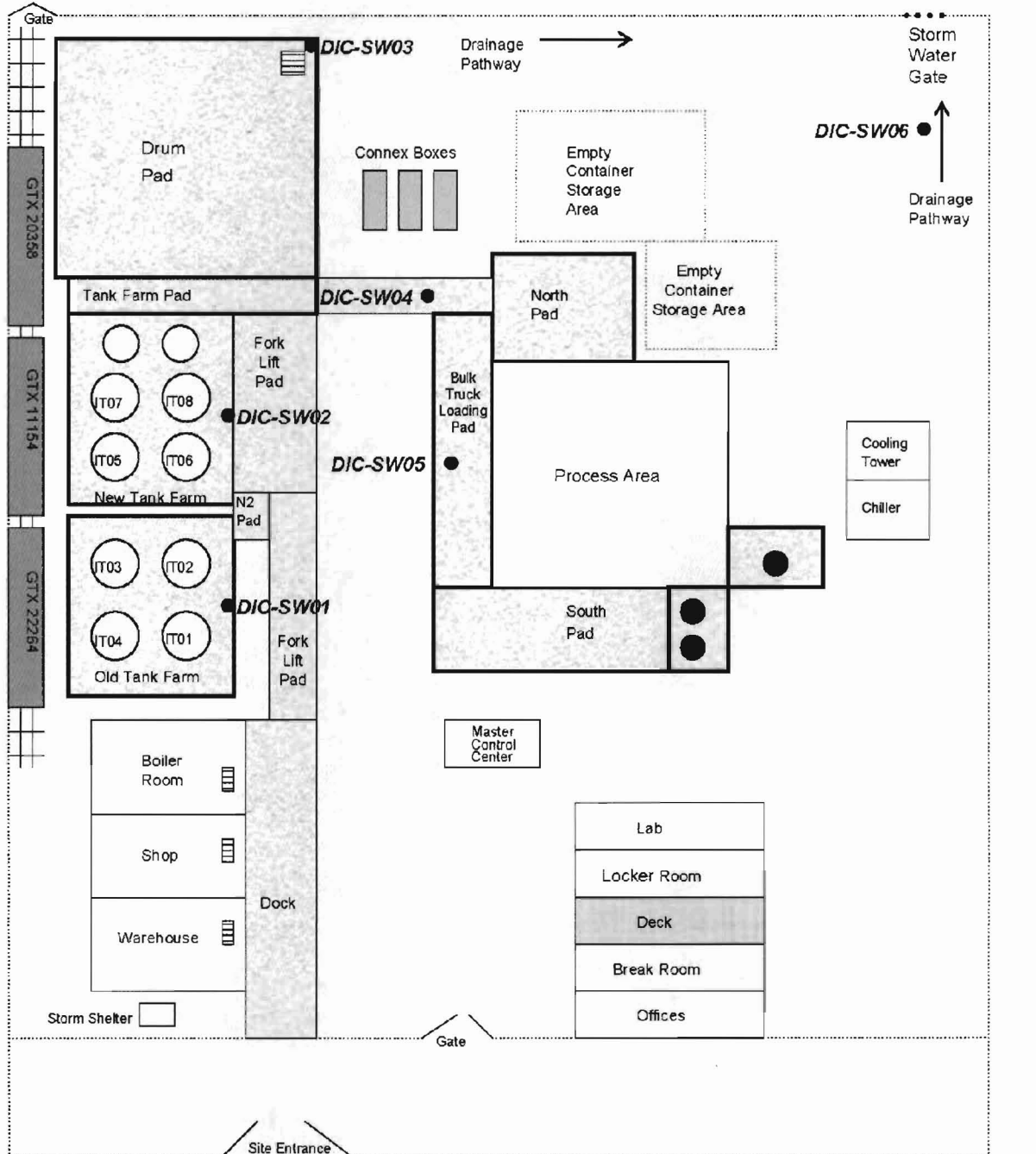


FIGURE 6
Diaz Intermediates
West Memphis, Crittenden County, Arkansas

REFERENCES

REFERENCE 1

1/29/08

Site Visit - Diaz Intermediates
west Memphis, AR.

Arrived on site at approx 10:00 a.m.
temp. approx 50°F, PPF Level A.

Heavy rain in the area. Dennis Green,
Les Branscum and I traveled to the
site from L.R. office. Upon arrival
met with EPA OSC Charles Fisher
& EPA Contractor Tony Nagin.
EPA Region 6 is currently assessing
the site for a removal action. Several
containers are on site that contain
various organic chemicals. Some
leaking and past spillage are evident
in some storage areas. Strong chemical
odor in warehouse. Tank containment
is holding large amount of water from
rainfall. Process area piping is
showing signs of deterioration. Vessels
in process area show chemicals still
present in lines. Roof in process area
leaking heavily from rainfall. Site
appears to be in overall good condition
with some signs of leaking and spillage
having occurred. Left site at approx 1:00 p.m.

End of Record VS

REFERENCE 2

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Geology of Arkansas

Rocks are generally placed into 1 of 3 major categories: igneous, metamorphic, or sedimentary. Igneous rocks have solidified from molten or partly molten mineral matter. Metamorphic rocks have been altered in the solid state from some pre-existing condition in response to significant changes in temperature, pressure, or chemical environment. Sedimentary rocks are composed of particles of sediment, which are derived by the weathering and/or the erosion of pre-existing rock. Most surficial rocks in Arkansas are sedimentary, but there are some igneous rocks (with adjacent contact metamorphic rocks) and very low grade regional metamorphic rocks in Arkansas also.

A sedimentary rock consists of two components: the particles and the cement that holds them together. However, the unconsolidated sediments of eastern Arkansas are considered sedimentary rocks. Sedimentary rocks are classified as clastic (rocks made up of grains of sand, silt, and clay) or chemical (rocks made up of shell fragments, saline water deposits, and other materials that are deposited from solution). The most common clastic sedimentary rocks are shales, siltstones, and sandstones. The most common chemical sedimentary rocks are limestone and dolostone.

To understand how sedimentary rocks form, we must account for the processes that create the original particles of sediment, the mechanisms of sediment transport, the processes of deposition or precipitation of a given sediment, and what has happened to the sediment over time. By studying rocks and depositional systems (the processes by which sediments are deposited), geologists recognize that most of the sedimentary rocks in the Paleozoic Highlands of Arkansas are marine. In the southern and eastern parts of the state, the sedimentary deposits are predominantly fluvial (fresh-water processes).

The exposures of igneous rocks in Arkansas are less than 0.1 percent of the entire area of the state. Most are exposed over 15 square miles, principally in Pulaski, Saline, Hot Spring, Garland, and Pike Counties. A few small igneous dikes and sills are present outside the Ouachita region, mostly in the Arkansas Valley, and in at least one case, in the Boston Mountains. Except for some localized contact metamorphism adjacent to the larger igneous intrusions, only very low grade metamorphic rocks are present in the state.

Arkansas is divided into a highland area in the northwest and a lowland region in the south and east. The rocks in the highland area are dominated by well-lithified sandstones, shales, limestones, and dolostones of Paleozoic age. A thin drape of younger unconsolidated clays, sands, and gravel, termed alluvium, is often found in valley floors and associated with the streams and rivers. The sedimentary deposits of the lowlands are mainly unconsolidated clay, sand, and gravel of Quaternary age, poorly consolidated deposits of clay, sand, silt, limestone, and lignite of Tertiary age, and consolidated (to a limited extent) deposits of Cretaceous marl, chalk, limestone, sand, and gravel (see [Geologic Map of Arkansas](#)).

When most of the sediments that compose the rocks in the highland region of Arkansas were being deposited, north Arkansas was a shallow south-sloping sea floor (continental shelf), the Arkansas River Valley was near the edge of the shelf, and the Ouachita area was a deep abyssal plain (see [General Geologic History](#)). An abyssal plain is the relatively smooth and deep (more than 3,000 feet below sea level) parts of the ocean floor where accumulating sediments have buried the pre-existing topography. In the late Paleozoic Era, a broad uplift domed the Ozark strata with little structural disruption. Simultaneously, a collision of two of the earth's mobile continental plates compressed the sediments of the abyssal plain into the Ouachita Mountains. This multimillion-year-long process folded and faulted the Ouachita strata into a structurally complex mountain chain. The Arkansas River Valley area is the transition zone between the structurally simple Ozarks and the structurally complex Ouachitas with subdued characteristics in each region.

Today, the rocks of the Ozarks tilt slightly to the south and have a dendritic drainage pattern. Since shales and siltstones erode faster than sandstones and limestones, the basic topography is flat-topped mountains with stepped flanks. By

contrast, the topographic expression of the Ouachitas is controlled not only by the erosional resistance of the rocks, but also by their internal structure. The strata are complexly folded and frequently faulted. The mountains are mostly east-west-trending ridges supported by erosionally resistant rocks and separated by less resistant rocks. The Arkansas River Valley is characterized by much less intensely folded and faulted strata than the Ouachita region. Erosional processes left the synclines as mountains and the anticlines as valleys.

The rocks and sediments of the Mississippi River Alluvial Plain and West Gulf Coastal Plain (both in the south and east portion of the state) are much younger than those of the Interior Highlands. The Cretaceous-age rocks of southwest Arkansas were deposited in and along the margin of a shallow sea. The Tertiary-age materials of southern Arkansas represent marginal marine conditions, both on- and off-shore deposits. The unconsolidated Quaternary sediments of eastern Arkansas were deposited by water released during the interglacial phases of the Ice Age. Crowley's Ridge is an isolated erosional remnant carved by rivers, possibly with structural control from ancient seismic activity. Significant deposits of wind-blown dust (loess) were also deposited across Arkansas during the Quaternary.

Arkansas' rocks, minerals, fossils, fossil fuels, and its water resources resulted from prolonged episodes of deposition, mountain building, and erosion. The interaction of these and other processes was variable throughout Arkansas. Long-term changes in climate were also significant.

Modified from AGC Bulletin 24: Mineral, Fossil-Fuel, and Water Resources of Arkansas, 1997

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Geologic History

The past 500 million years of geologic history of Arkansas may be interpreted from the rocks and sediments exposed in the state. A summary of major geologic events, recorded in the rock record, is presented below in a manner (oldest at the bottom, youngest at the top) that allows this information to be readily compared with the correlation charts displayed as part of the [Stratigraphic Summary](#).

GEOLOGIC HISTORY OF ARKANSAS: A SUMMARY

Age boundaries in millions of years (Ma)

CENOZOIC ERA

Quaternary Present to 1.6 Ma

Holocene (Present to .01 Ma): Frequent flooding of the Mississippi and other rivers results in deposition of alluvium. Sand dike injection and extrusion during major earthquakes occurs in northeastern Arkansas. Erosion of the Interior Highlands and down-cutting by most streams occurs.

Pleistocene (.01 to 1.6 Ma): Local alpine snow packs form in the Boston Mountains and Ouachita Mountains. Repeated intervals of erosion and deposition of glacial outwash by the ancestral Mississippi and Ohio Rivers form the Eastern and Western Lowlands and Crowley's Ridge. Sand and silt winnowed from the outwash form dunes and sheet-like deposits of loess. Erosion occurs over most of the Interior Highlands.

Tertiary 1.6 to 66 Ma

Pliocene - Oligocene(1.6 to 36.6 Ma): Erosion over most of the state.

Eocene (36.6 to 57.8 Ma): Marine and fluvial clastic sediments fill the Mississippi Embayment; transportation of some bauxite; swampy conditions favorable to the accumulation of plant debris (lignite). Erosion occurs in the Interior Highlands.

Paleocene (57.8 to 66 Ma): Shallow marine sea in the Mississippi Embayment; formation of nearshore reefs and layers rich in marine remains and accumulation of dark marine clays; development of bauxite on islands of exposed Cretaceous igneous rocks. Erosion occurs in the Interior Highlands.

MESOZOIC ERA

Cretaceous 66 to 144 Ma

Deposition of water-laid volcanic debris preceded the accumulation of sand, marl, and chalk in shallow marine seas during the Late Cretaceous. About 100 Ma, downwarping of the Mississippi Embayment resulted in the invasion of the region by a shallow sea. Igneous activity in central, southwestern, and eastern Arkansas; nearshore deposition of clastic and carbonate debris in the Early Cretaceous, along with deposition of gypsum and anhydrite in highly saline waters in southwestern Arkansas. Erosion occurs in the Interior Highlands.

Jurassic 144 to 208 Ma

Deposition of carbonate sand (often oolitic) in a shallow marine environment and some red clay and anhydrite in a shallowing sea; preceded by the accumulation of a thick sequence of salt beds (halite), some anhydrite, and red clay and silt in shallow highly saline waters. Present only in the subsurface in southern Arkansas. Erosion occurs in the Interior Highlands.

Jurassic or Triassic: Intrusion of small localized bodies of magma in southern Arkansas, which crystallized to form igneous rocks.

Triassic 208 to 245 Ma

Accumulation of predominantly red clay and silt, sand and gravel, and minor beds of anhydrite in a non-marine environment. Present only in southern Arkansas (in the subsurface). Age is indefinite. Erosion occurs in the Interior Highlands.

PALEOZOIC ERA**Permian 245 to 286 Ma**

Erosion occurs. Last interval of uplift of the Interior Highlands and end of milky quartz-vein formation.

Pennsylvanian 286 to 320 Ma

Ozark region: Deposition of clastic sediments occurs. Younger Pennsylvanian rocks absent; very late normal faulting.

Arkansas Valley region: Rapid infilling of clastic sediments and development of growth faults along northern basin margin. As the basin shallowed, plant debris (now present as coal) accumulated in nearshore swampy areas.

Ouachita region: Rapid influx of clastic sediments in a deep marine trough followed by intense deformation, such as folding, faulting, and, at depth, low-grade metamorphism; uplift during the Ouachita orogeny. Concurrent formation of quartz veins.

Mississippian 320 to 360 Ma

Ozark region: Deposition and episodic erosion of shallow-water platform carbonate debris, clay, sand, and siliceous ooze.

Ouachita region: Rapid influx of clastic sediments in the Late Mississippian following slow accumulation of siliceous ooze and clay in the Early Mississippian.

Devonian 360 to 408 Ma

Ozark region: Slow deposition of carbonate sediments, siliceous ooze, carbonaceous clay, and some sand in shallow marine water, interrupted by intervals of erosion.

Ouachita region: Slow accumulation of siliceous ooze and clay in a deep marine environment.

Silurian 408 to 438 Ma

Ozark region: Deposition of thin, shallow-water carbonate sediments, interrupted by intervals of erosion.

Ouachita region: Slow influx of sand and clay in a deep marine environment.

Ordovician 438 to 505 MA

Ozark region: Deposition of shallow-water carbonate sediment and minor sand interrupted by intervals of erosion.

Ouachita region: Prolonged deep water accumulation of clay, sand, carbonaceous sediment, and siliceous ooze.

Cambrian 505 to 570 Ma

Ozark region: Calcareous sediment, some quartzose sand, and clay accumulate in shallow water.

Ouachita region: Sediments accumulated as alternating layers of clay, silt, sand, and minor lime mud.

PRECAMBRIAN TIME

Precambrian 570 to 4,600 Ma

Ozark region and northern part of Mississippi Embayment: Granitic-type igneous rocks (some approximately 1,400 Ma) have been encountered in some wells.

Ouachita region: Erratic boulders of late Precambrian igneous and metamorphic rocks and sparse tectonically emplaced bodies of metamorphosed igneous rocks ($\approx 1,000$ Ma) are present in Paleozoic rocks.

In these areas, there is no evidence of the succession of events during Precambrian time. Although not exposed elsewhere, Precambrian rocks are assumed to underlie the entire state.

Sources: Time scale from Palmer (1983). Geology from the AGC.

Arkansas Geological Commission

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Personnel	Arkansas Geology	Resources	Mineral Producers	Links

Stratigraphic Summary of Arkansas

extracted with minor revisions from
AGC Information Circular 36
Compiled by John David McFarland

This summary of the stratigraphic section of Arkansas is intended to be a companion document for the Geologic Map of Arkansas (1976, 1993). It offers a brief description of each of the units depicted on the state geologic map. Some stratigraphic units combined on the Geologic Map of Arkansas are treated independently herein. A few units that are not specifically listed on the legend of the state geologic map are treated separately because of their outcrop prominence or importance for stratigraphic understanding. Some units depicted on the Geologic Map of Arkansas are not formal stratigraphic formations, but rather are descriptive references; nevertheless, a brief description is herein provided. Most of these latter units are Quaternary subdivisions that have not yet been studied in detail. Some information contained in this document is at variance with the data presented on the Geologic Map of Arkansas due to more recent observations and interpretations.

Each listing relates the general geology of each unit along with auxiliary information relating to the unit's age, distribution, original reference, and type locality. The information provided for each formation under the *Geology* heading consists of a brief statement relating to the dominate lithologies and characteristics of the unit, its fossil fauna, conformity of the lower contact, and thickness on the outcrop. If a unit has well known subdivisions, they are usually treated within this section. The *Age* of each formation is listed by geologic Period often with some indication of conventional subdivision, such as Early, Middle, and Late, or an Epoch name. The *Distribution* of each formation is presented with reference to the general area in Arkansas where the unit outcrops. If the unit is known outside of Arkansas, the other states are listed following the information about Arkansas. The *Original reference* is the citation for the original publication defining the unit. The *Type locality* information is usually the type area of the formation rather than a specific type locality. Many of these formations were defined before the practice of designating a type locality became a part of proper stratigraphic description.

This document is broken into four sections, which may be accessed by clicking on these links: [the Ozark Plateaus Region](#), [the Ouachita Region including the Arkansas Valley](#), [the Mississippi Embayment and Gulf Coastal Plain](#), and [Igneous](#). Some units are recognized in more than one section of the state and are listed in all sections that apply. The order of the descriptions is the same as the stratigraphic sequence, oldest to youngest. The stratigraphic units (listed herein) that are printed in italics are in dispute.

The information compiled in this document was derived from many sources, both personal and published. Along with the references listed below, Arkansas Geological Commission staff members Doug Hanson, Boyd Haley, Mike Howard, Bill Prior, Charles Stone, and the author provided data from their personal researches into the various regions and strata.

Correlation Charts of Arkansas Formations

QUATERNARY		TERTIARY	
Holocene	alluvium	Pleistocene	terrace
	dune sand		silt & sand
			loess
Pliocene	sand & gravel	Eocene	Jackson
			Claiborne
			Wilcox
Paleocene	Midway		

CRETACEOUS	
Late	Arkadelphia
	Nacatoch
	Saratoga
	Marlbrook
	Annona Chalk
	Ozan
	Brownstown
	Tokio
	Woodbine
	Kiamichi
Early	Goodland
	DeQueen
	Dierks
	Pike Gravel

Correlation charts of Arkansas formations. Recognized unconformities separating formations are indicated by a stipple pattern. No relative thickness or significance is implied by these charts.

Period	Ozarks	Ouachitas
CARBONIFEROUS	PENNSYLVANIAN	Boggy
		Savanna
		McAlester
		Hartshorne
	Atoka	Atoka
	Bloyd	Johns Valley
	Hale	Jackfork
	Prairie Grove	
	Cane Hill	
	(Imo)	Stanley
	Pitkin	
	Fayetteville	
	Batesville	
	(Ruddell)	
	Moorefield	
	Boone	
	St. Joe	Arkansas Novaculite (part)

Period		Ozarks	Ouachitas
DEVONIAN		Chattanooga	Arkansas Novaculite (part)
		Clifty	
		Penters	
SILURIAN		Lafferty	Missouri Mtn.
		St. Clair	
		Cason	Blaylock
		Brassfield	
ORDOVICIAN	Late		Polk Creek
		Fernvale	Bigfork
		Kimmswick	
	Middle	Plattin	
		Joachim	
		St. Peter	Womble
		Everton	Blakely
	Early	Powell	Mazam
		Cotter	
		Jefferson City	
			Crystal Mtn.
CAMBRIAN		(unexposed)	Collier
			(unexposed)

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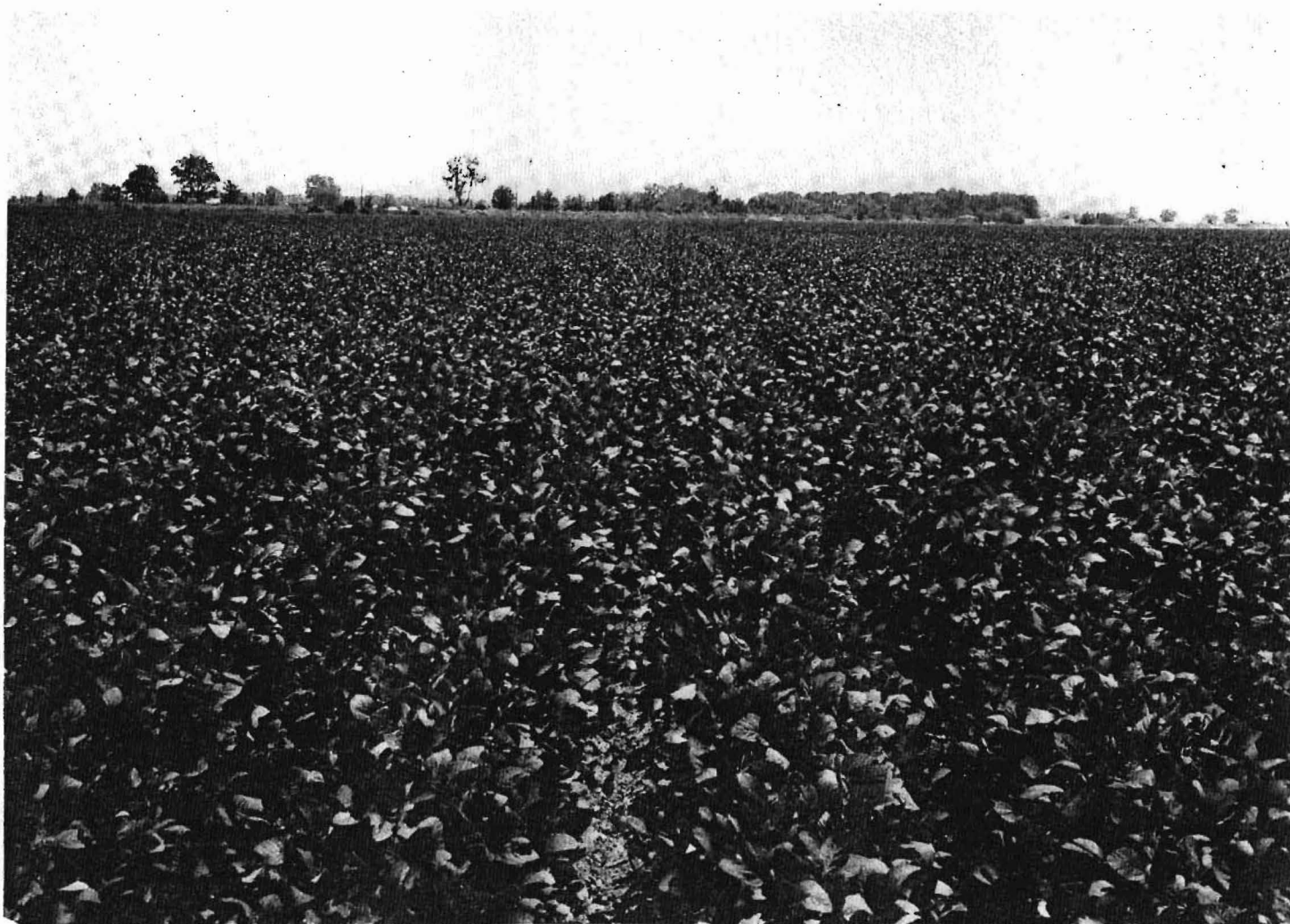
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REFERENCE 3

SOIL SURVEY OF
Crittenden County, Arkansas



RECEIVED
NOV 12 1974

Arkansas Pollution Control
Commission



United States Department of Agriculture
Soil Conservation Service
in cooperation with
Arkansas Agricultural Experiment Station

Issued October 1974

These soils are suited to most crops commonly grown in the county. Nearly all the acreage is cultivated.

Representative profile of Dubbs silt loam, gently undulating, in a moist, cultivated area in the SE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 26, T. 7 N., R. 8 E.:

- Ap—0 to 4 inches, dark grayish-brown (10YR 4/2) silt loam; weak, medium, granular structure; friable; many fine roots; medium acid; abrupt, smooth boundary.
- B21t—4 to 18 inches, yellowish-brown (10YR 5/4) silty clay loam; moderate, medium, subangular blocky structure; firm; common, thin, patchy clay films on faces of peds; many fine roots; very strongly acid; clear, smooth boundary.
- B22t—18 to 30 inches, yellowish-brown (10YR 5/6) silt loam; few, fine, faint, pale-brown mottles; moderate, medium, subangular blocky structure; firm; common, thin, patchy clay films on faces of peds; few fine roots; very strongly acid; clear, smooth boundary.
- C1—30 to 45 inches, yellowish-brown (10YR 5/4) silt loam; few, fine, faint, light brownish-gray mottles; massive; friable; very strongly acid; gradual, smooth boundary.
- IIC2g—45 to 51 inches, light brownish-gray (10YR 6/2) loamy fine sand; few, medium, distinct, yellowish-brown (10YR 5/4) mottles; massive; loose; medium acid; abrupt, smooth boundary.
- IIC3g—51 to 69 inches, mottled brown (10YR 5/3) and light brownish-gray (10YR 6/2) fine sandy loam; massive; friable; few fine pores; medium acid; abrupt, smooth boundary.
- IIC4g—69 to 82 inches, gray (10YR 6/1) loamy fine sand; massive; loose; medium acid.

The Ap horizon is dark grayish brown or grayish brown. The B horizon is yellowish-brown or dark yellowish-brown silt loam or silty clay loam. The B22t horizon has few to common pale-brown or light brownish-gray mottles. The C horizon is at a depth of 30 to 48 inches, and it ranges from silt loam to very fine sandy loam. The IIC horizon is fine sandy loam or loamy fine sand. Reaction is strongly acid to slightly acid in the A horizon and medium acid to very strongly acid in the B and C horizons.

Dubbs soils are associated mainly with Beulah and Dundee soils. They are finer textured and have slower internal drainage than Beulah soils and are browner and better drained than Dundee soils.

Dubbs silt loam, 0 to 1 percent slopes (DsA).—This level soil is on the tops and sides of natural levees. Areas range from 10 to 150 acres in size. Included in mapping are spots of Beulah and Dundee soils.

This soil is well suited to farming. It warms early in spring and can be planted early. Under good management, clean-tilled crops that leave a large amount of residue can be grown year after year.

The main crops are cotton and soybeans. Other suitable crops are corn, grain sorghum, peanuts, winter small grain, and truck crops, such as okra, green beans, potatoes, sweet corn, tomatoes, strawberries, and melons. Suitable pasture plants are bermudagrass and white clover. Capability unit I-1.

Dubbs silt loam, gently undulating (DsU).—This soil is generally on the tops and sides of natural levees, in areas of alternating long, narrow swales and low ridges that rise 2 to 5 feet above the swales. Slopes are predominantly less than 2 percent. Areas range from 10 to 150 acres in size. This soil has the profile described as representative for the series. Included in mapping are a few narrow escarpments and spots of Beulah and Dundee soils.

This soil is well suited to farming. It warms up early in spring and can be planted early. Under good manage-

ment, clean-tilled crops that leave a large amount of residue can be grown year after year.

The main crops are cotton and soybeans. Other suitable crops are corn, grain sorghum, peanuts, winter small grain, and truck crops, such as okra, green beans, potatoes, sweet corn, tomatoes, strawberries, and melons. Suitable plants are bermudagrass and white clover. Capability unit I-1.

Dundee Series

The Dundee series consists of somewhat poorly drained soils on the lower parts of the older natural levees along bayous and abandoned river channels. These soils formed in stratified beds of loamy sediments.

In a representative profile, the surface layer is dark grayish-brown silt loam about 8 inches thick. The subsoil extends to a depth of about 36 inches. It is grayish-brown and light brownish-gray silt loam mottled with yellowish brown. Below this is about 16 inches of mottled gray silt loam that is underlain by mottled gray silty clay.

Dundee soils are high in natural fertility. Content of organic matter is moderate to low. Permeability is moderately slow, and the available water capacity is high. The response to fertilization is good. Tilth is easy to maintain. In places a plowpan has formed. The pan restricts root penetration and movement of water through the soil.

These soils are suited to most crops commonly grown in the county. Nearly all the acreage is cultivated.

Representative profile of Dundee silt loam, 0 to 1 percent slopes, in a moist, cultivated area in the SW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 16, T. 8 N., R. 8 E.:

- Ap1—0 to 4 inches, dark grayish-brown (10YR 4/2) silt loam; weak, fine, granular structure; very friable; common fine roots; strongly acid; abrupt, smooth boundary.
- Ap2—4 to 8 inches, dark grayish-brown (10YR 4/2) silt loam; massive to weak, thick, platy structure (plowpan); firm; common fine roots; strongly acid; clear, smooth boundary.
- B21tg—8 to 25 inches, grayish-brown (10YR 5/2) silt loam; common, medium, faint, yellowish-brown (10YR 5/4) mottles; weak, coarse, subangular blocky structure; friable; common fine roots; common fine pores; thin patchy clay films on faces of peds and in pores; very strongly acid; gradual, wavy boundary.
- B22tg—25 to 36 inches, light brownish-gray (10YR 6/2) silt loam; common, medium, faint, yellowish-brown (10YR 5/4) mottles; weak, medium and coarse, subangular blocky structure; friable; few fine roots; common fine pores; thin patchy clay films on faces of peds and in pores; very strongly acid; gradual, wavy boundary.
- C1g—36 to 52 inches, gray (10YR 6/1) silt loam; common, medium, distinct, yellowish-brown (10YR 5/4) mottles; massive; very friable; few, fine, black concretions; strongly acid; clear, smooth boundary.
- IIC2g—52 to 74 inches, gray (10YR 5/1) silty clay; common, medium, distinct, dark yellowish-brown (10YR 4/4) mottles; massive; firm, plastic; few, fine, dark concretions; slightly acid; gradual, wavy boundary.

The Ap horizon is dark grayish brown or grayish brown. In some profiles the Ap2 horizon is lacking. Depth to mottling ranges from 8 to 14 inches. The B horizon is silt loam or silty clay loam. The B21tg horizon is grayish brown or dark grayish brown, and the B22tg is grayish brown, light brownish gray, or gray. The C horizon is gray, grayish brown,

or light brownish gray. The C1g horizon ranges from silt loam to loamy fine sand. In some profiles the IIC2g horizon is lacking, or it is more than 72 inches below the surface. Reaction ranges from slightly acid to strongly acid in the A horizon, medium acid to very strongly acid in the B horizon, and strongly acid to neutral in the C horizon.

In most areas in this county, these soils have slightly less clay and weaker structure in the B horizon than is defined in the range for the series, but these differences do not alter their usefulness and behavior.

Dundee soils are associated with Beulah, Dubbs, and Forestdale soils. They are finer textured than Beulah soils. They are grayer and more poorly drained than Beulah and Dubbs soils. They are better drained, less gray, and less clayey in the A and B horizons than Forestdale soils.

Dundee silt loam, 0 to 1 percent slopes (DuA).—This level soil is on the lower parts of natural levees. Areas range from about 20 to 400 acres in size. The profile of this soil is the one described as representative for the series. Included in mapping are spots of Crevasse and Dubbs soils.

This soil is well suited to farming, but excess water is a moderate hazard. Fieldwork is commonly delayed several days after a rain unless surface drains are installed. Under good management that includes adequate drainage, clean-tilled crops that leave a large amount of residue can be grown year after year.

The main crops are cotton and soybeans (fig. 5). Other suitable crops are corn, peanuts, grain sorghum, winter small grain, and truck crops, such as okra, green beans, potatoes, sweet corn, tomatoes, strawberries, and melons. Suitable pasture plants are bermudagrass, tall fescue, and white clover. Capability unit IIw-2.

Dundee silt loam, gently undulating (DuU).—This soil is on the lower parts of natural levees, in areas of alternating long, narrow swales and low ridges that rise 2 to 3 feet above the swales. Slopes are predominantly less than 2 percent. Areas range from about 10 to 150 acres in size. The profile of this soil is similar to the one described as representative for the series, but in swales, it is more mottled. Included in mapping are spots of Crevasse and Dubbs soils.

This soil is well suited to farming, but excess water is a moderate hazard. Water accumulates in the swales of undulations, and fieldwork is often delayed several days after a rain unless surface drains are installed. Under good management that includes adequate drainage, clean-tilled crops that leave a large amount of residue can be grown year after year.

The main crops are cotton and soybeans. Other suitable crops are corn, peanuts, grain sorghum, winter small grain, and truck crops, such as okra, green beans, potatoes, sweet corn, tomatoes, strawberries, and melons. Suitable pasture plants are bermudagrass, tall fescue, and white clover. Capability unit IIw-2.

Earle Series

The Earle series consists of somewhat poorly drained, level and gently undulating soils at higher elevations in the slack-water areas. These soils formed in beds of clayey sediments over coarser textured sediments.

In a representative profile, the surface layer is very dark grayish-brown clay about 4 inches thick. The upper 26 inches of the subsoil is gray clay, and the lower 12 inches is gray loamy sand. The subsoil is mottled

throughout with shades of yellowish brown. The underlying material is mottled brown loamy sand.

Earle soils are moderate to high in natural fertility. Content of organic matter is medium to low. Permeability is very slow, and the available water capacity is high. The response to fertilization is good. Tilt is difficult to maintain because of the high content of clay in the upper 30 inches, and a seedbed is difficult to prepare. These soils shrink and crack when dry and expand when wet. If they are plowed when wet, hard, persistent clods form.

These soils are suited to most crops grown in the county. Nearly all the acreage is cultivated.

Representative profile of Earle clay in a moist, cultivated area in the NW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 29, T. 9 N., R. 6 E.:

- Ap—0 to 4 inches, very dark grayish-brown (10YR 3/2) clay; weak, fine, granular structure; firm, plastic; many fine roots; strongly acid; abrupt, smooth boundary.
- B21g—4 to 19 inches, gray (10YR 5/1) clay; common, medium, distinct, yellowish-brown (10YR 5/6) mottles; moderate, medium, subangular blocky structure; firm, plastic; few slickensides that do not intersect; common fine roots; few, fine, dark concretions; very strongly acid; gradual, smooth boundary.
- B22g—19 to 30 inches, gray (10YR 6/1) clay; common, medium and fine, distinct, yellowish-brown (10YR 5/6) mottles; moderate, medium, subangular blocky structure; firm, plastic; few slickensides that do not intersect; few fine roots; few, fine, dark concretions; very strongly acid; clear, smooth boundary.
- IIB3g—30 to 42 inches, gray (10YR 6/1) loamy sand; common, medium, distinct, yellowish-brown (10YR 5/6) mottles; weak, coarse, subangular blocky structure; loose; few fine roots; few, fine, dark concretions; strongly acid; clear, smooth boundary.
- IIC1—42 to 58 inches, brown (10YR 5/3) loamy sand; common, fine, faint, yellowish-brown mottles; massive; loose; few fine and medium roots; medium acid; diffuse boundary.
- IIC2—58 to 72 inches, brown (10YR 5/3) loamy sand; common, medium, distinct, dark-brown (7.5YR 4/4) mottles; massive; loose; few fine and medium roots; medium acid.

The Ap horizon is dark grayish brown, very dark grayish brown or dark brown. Depth to the IIB horizon is 20 to 36 inches. The IIB horizon ranges from silty clay loam to loamy sand. The IIC horizon ranges from silt loam to loamy sand. Reaction is medium acid to very strongly acid in the A horizon, strongly acid or very strongly acid in the B horizon, and medium acid to very strongly acid in the C horizon.

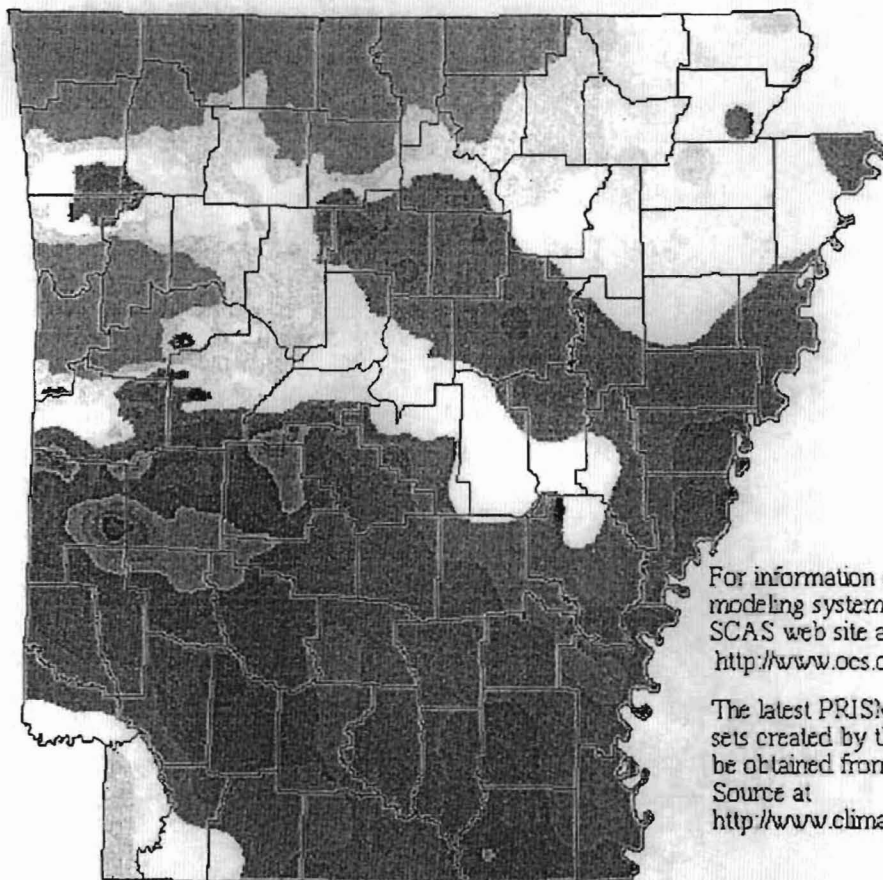
Earle soils are associated mainly with Alligator and Forestdale soils. They are not so poorly drained as the associated soils. They formed in thinner beds of clayey sediments than Alligator soils. They are finer textured in the A horizon than Forestdale soils and lack the translocated clay in the B horizon that is characteristic of Forestdale soils.

Earle clay (Ec).—This soil is on slack-water flats that are broken by gently undulating areas. The undulating areas have alternating long, narrow swales and low ridges that rise 2 to 5 feet above the swales. Slopes range from 0 to 2 percent. Areas are generally 10 to 80 acres in size. Included in mapping are spots of Alligator and Forestdale soils.

This soil is suited to farming, but excess water is a severe hazard. Fieldwork is delayed several days after a rain unless surface drains are installed. Under good management that includes adequate drainage, clean-tilled crops that leave a large amount of residue can be grown year after year.

REFERENCE 4

Average Annual Precipitation Arkansas



For information on the PRISM modeling system, visit the SCAS web site at <http://www.ocs.orst.edu/prism>

The latest PRISM digital data sets created by the SCAS can be obtained from the Climate Source at <http://www.climatesource.com>

Legend (in inches)

Under 46	56 to 58
46 to 48	58 to 60
48 to 50	60 to 62
50 to 52	62 to 64
52 to 54	Above 64
54 to 56	

Period: 1961-1990

This is a map of annual precipitation averaged over the period 1961-1990. Station observations were collected from the NOAA Cooperative and USDA-NRCS Snotel networks, plus other state and local networks. The PRISM modeling system was used to create the gridded estimates from which this map was made. The size of each grid pixel is approximately 4x4 km. Support was provided by the NRCS Water and Climate Center

Copyright 2000 by Spatial Climate Analysis Service, Oregon State University

REFERENCE 5

ARKANSAS POLLUTION CONTROL AND ECOLOGY COMMISSION



REGULATION NO. 2

REGULATION ESTABLISHING WATER QUALITY STANDARDS FOR SURFACE WATERS OF THE STATE OF ARKANSAS

Adopted by the Arkansas Pollution Control and Ecology Commission on (October 26, 2007)

FILED
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OCT 19 PM 5:09
STATE OF ARKANSAS
BY

DESIGNATED USES: DELTA ECOREGION

(Plates D-1, D-2, D-3, D-4, D-5)

Extraordinary Resource Waters

Second Creek (D-4)
Cache River above Cache Bayou - adjacent to natural areas (D-3)
Arkansas River below Dam #2 (D-5)
Strawberry River (D-1)
Two Prairie Bayou adjacent to natural areas (D-3)

Natural and Scenic Waterways

None

Ecologically Sensitive Waterbodies

Lower St. Francis River and lower 10 miles of Straight Slough - location of fat pocketbook mussel (D-2, D-4)
Right Hand Chute at confluence with St. Francis River - location of fat pocketbook mussel (D-2)
Departee Creek - location of flat floater mussel (D-1)
Black River at mouth of Spring River - location of pink mucket mussel (D-1)

Channel-altered Delta Ecoregion Streams - These include the majority of the streams in this ecoregion and are characterized by substantial alteration of the morphology of their main-stream channel as well as their tributary streams. Such alteration of the tributaries of these streams significantly affects the water quality and hydrology of the streams and their watersheds. Most of the upper segments of these waters have been dredged and straightened into ditches. Additionally most of the tributaries of these streams have been straightened, ditched and, in some cases, rerouted to quickly move water off the agriculture fields and into the major streams. In the lower segments of these waters, channel realignment is less expansive but most of these channels have been "snagged" to remove any in-stream obstructions (brush, logs, and other debris) and the stream channel and banks have been dredged to uniform depths and cleared of any obstructions. These include Cache River, Bayou DeView, Village Creek, Blackfish Bayou and others to be determined by the Department on a case by case basis.

Primary Contact Recreation - all streams with watersheds of greater than 10 mi² and all lakes/reservoirs

Secondary Contact Recreation - all waters

Domestic, Industrial and Agricultural Water Supply - all waters

Fisheries

Trout - none

Lakes and Reservoirs - all

Streams

Seasonal Delta fishery - all streams with watersheds of less than 10 mi² except as otherwise provided in Reg. 2.505
Perennial Delta fishery - all streams with watersheds 10 mi² or larger and those waters where discharges equal or exceed 1 CFS

Use Variation Supported by UAA

Unnamed ditch to Little Lagrue Bayou - perennial Delta fishery (D-3, #1)
Little Lake Bayou - seasonal Delta fishery; no primary contact (D-5, #2)
Coon Creek and unnamed tributary from Frit Ind. - no domestic water supply use (D-1, #3)
Rocky Branch Creek and Bayou Meto from Rocky Branch Creek to Bayou Two Prairie - no domestic water supply use (D-3 #4)
Ditch No. 27 - no domestic water supply use (D-2, #5)
Ditch No. 6 - no domestic water supply use (D-2, #6)

SPECIFIC STANDARDS: DELTA ECOREGION

	(Plates D-1, D-2, D-3, D-4, D-5)				
	<u>Least-Altered Streams</u>		<u>Channel-Altered Streams</u>		<u>Lakes and Reservoirs</u>
Temperature °C (°F)*	30 (86)		32 (89.6)		32 (89.6)
White River	32 (89.6)				
St. Francis River	32 (89.6)				
Mississippi River	32 (89.6)				
Arkansas River	32 (89.6)				
Turbidity(NTU) (base/all)	45/84		75/250		25/45
Arkansas River (base/all)	50/52				
Mississippi River (base/all)	50/75				
St. Francis River (base/all)	75/100				
Minerals	see Reg. 2.511		see Reg. 2.511		see Reg. 2.511
Dissolved Oxygen (mg/l)**	<u>Pri</u>	<u>Crit</u>	<u>Pri</u>	<u>Crit.</u>	see Reg. 2.505
<10 mi ² watershed	5	2	5	2	
10 mi ² to 100 mi ²	5	3	5	3	
>100 mi ² watershed	5	5	5	5	
All other standards	(same as statewide)				

Variations Supported by UAA

Unnamed ditch to Little Lagrue Bayou - from headwaters to confluence with Little Lagrue Bayou,
 critical season D.O. standard - 3 mg/l (D-3, #1)
 Little Lake Bayou - critical season D.O. standard - 2 mg/l (D-5, #2)
 Unnamed tributary from Frit Ind, to Coon Creek - sulfates 48 mg/l (D-1, #3)
 Rocky Branch Creek- chlorides 64 mg/l (D-3, #4)
 Bayou Meto from Rocky Branch Creek to Bayou Two Prairie - chlorides 64 mg/l (D-3, #4)
 Bayou Meto from mouth to Bayou Two Prairie- chlorides 95 mg/l; sulfates 45 mg/l (D-3, #4)
 Ditch No. 27 - sulfates 480 mg/l; TDS 1,200 mg/l; maximum water temperature 95°F (D-2, #5)
 Ditch No. 6 from Ditch No. 27 confluence to its mouth - sulfates 210 mg/l; TDS 630 mg/l (D-2, #6)
 Tyronza River from Ditch No. 6 confluence to its mouth - sulfates 60 mg/l - see Reg. 2.511 (D-2, #7)
 Long Pond Slough - chlorides 95 mg/l; sulfates 45 mg/l
 Castor Bayou - chlorides 95 mg/l; sulfates 45 mg/l
 Cross Bayou - chlorides 95 mg/l; sulfates 45 mg/l
 Bayou Two Prairie (mouth to Rickey Branch) - chlorides 95 mg/l; sulfates 45 mg/l
 Little Bayou Meto - chlorides 95 mg/l; sulfates 45 mg/l
 Bakers Bayou - chlorides 95 mg/l; sulfates 45 mg/l
 Wabbaseka Bayou - chlorides 95 mg/l; sulfates 45 mg/l
 Indian Bayou - chlorides 95 mg/l; sulfates 45 mg/l
 Flat Bayou - chlorides 95 mg/l; sulfates 45 mg/l
 Shumaker Branch - chlorides 95 mg/l; sulfates 45 mg/l
 Skinner Branch - chlorides 95 mg/l; sulfates 45 mg/l
 White Oak Branch - chlorides 95 mg/l; sulfates 45 mg/l
 Caney Creek - chlorides 95 mg/l; sulfates 45 mg/l
 Salt Bayou - chlorides 95 mg/l; sulfates 45 mg/l
 Snow Bayou - chlorides 95 mg/l; sulfates 45 mg/l
 Fish Trap Slough - chlorides 95 mg/l; sulfates 45 mg/l
 Ricky Branch - chlorides 95 mg/l; sulfates 45 mg/l

Blue Point Ditch- – chlorides 95 mg/l; sulfates 45 mg/l
Big Ditch – chlorides 95 mg/l; sulfates 45 mg/l
Main Ditch – chlorides 95 mg/l; sulfates 45 mg/l
Plum Bayou– chlorides 95 mg/l; sulfates 45 mg/l
Crooked Creek Ditch – chlorides 95 mg/l; sulfates 45 mg/l
Indian Bayou Ditch – chlorides 95 mg/l; sulfates 45 mg/l
Caney Creek Ditch – chlorides 95 mg/l; sulfates 45 mg/l
Salt Bayou Ditch – chlorides 95 mg/l; sulfates 45 mg/l
Bradley Slough – chlorides 95 mg/l; sulfates 45 mg/l
Tupelo Bayou – chlorides 95 mg/l; sulfates 45 mg/l
Dennis Slough – chlorides 95 mg/l; sulfates 45 mg/l
Buffalo Slough – chlorides 95 mg/l; sulfates 45 mg/l
Flynn Slough – chlorides 95 mg/l; sulfates 45 mg/l
Boggy Slough – chlorides 95 mg/l; sulfates 45 mg/l
Bear Bayou – chlorides 95 mg/l; sulfates 45 mg/l
Bubbling Slough – chlorides 95 mg/l; sulfates 45 mg/l
Five Forks Bayou – chlorides 95 mg/l; sulfates 45 mg/l
Government Cypress Slough – chlorides 95 mg/l; sulfates 45 mg/l
Brushy Slough – chlorides 95 mg/l; sulfates 45 mg/l
Tipton Ditch – chlorides 95 mg/l; sulfates 45 mg/l
Hurricane Slough – chlorides 95 mg/l; sulfates 45 mg/l
Newton Bayou – chlorides 95 mg/l; sulfates 45 mg/l
West Bayou – chlorides 95 mg/l; sulfates 45 mg/l
Brownsville Branch– chlorides 95 mg/l; sulfates 45 mg/l
Eagle Branch– chlorides 95 mg/l; sulfates 45 mg/l

* Increase over natural temperatures may not be more than 2.8°C (5°F).

** When water temperatures exceed 22°C, the critical season D.O. standard may be depressed by 1 mg/l for no more than 8 hours during a 24-hour period.

REFERENCE 6



The Department of Arkansas Heritage

Mike Beebe
Governor

Cathie Matthews
Director

Arkansas Arts Council

Arkansas Historic
Preservation Program

Delta Cultural Center

Historic Arkansas Museum

Mosaic Templars
Cultural Center

Old State House Museum



Arkansas Natural Heritage Commission

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323 Center Street
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e-mail:

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www.naturalheritage.com

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Received

FEB 26 2008
08-R-44975
Hazardous Waste

Date: February 25, 2008
Subject: Elements of Special Concern
Preliminary Assessment
West Memphis, Crittenden County, AR
ANHC No.: S-ADEQ-08-015

Mr. Terry Sligh
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118-5317

Dear Mr. Sligh:

Staff members of the Arkansas Natural Heritage Commission have reviewed our files for records indicating the occurrence of rare plants and animals, outstanding natural communities, natural or scenic rivers, or other elements of special concern occurring at a site in Section 24, T6N, R8E in Crittenden County, Arkansas. We find no records at present time. Attached is a list of Elements of Special Concern known to occur within a fifteen-mile radius of the site. The list has been annotated to indicate those elements falling within a one, and a four, mile radius of the site. A total of eleven (11) occurrences have been recorded within the 15 mile radius, three (3) within the four mile radius, and none within the one mile radius. An occurrence represents a location, which provides habitat for sensitive species (both state and federal species), is an outstanding example of a natural community, or is a colonial bird nesting site. A legend is provided to help you interpret the codes used on this list.

Our records indicate the following managed areas fall within the fifteen-mile radius:

Federal Managed Areas:

Wapannoca National Wildlife Refuge – U.S. Fish and Wildlife Service

If you have questions or need additional information, please feel free to contact me.

Sincerely,

Cindy Osborne
Data Manager/Environmental Review Coordinator
Enclosure: Element list (annotated), legend



LEGEND

STATUS CODES

FEDERAL STATUS CODES

C	=	Candidate species. The U.S. Fish and Wildlife Service has enough scientific information to warrant proposing this species for listing as endangered or threatened under the Endangered Species Act.
LE	=	Listed Endangered; the U.S. Fish and Wildlife Service has listed this species as endangered under the Endangered Species Act.
LT	=	Listed Threatened; the U.S. Fish and Wildlife Service has listed this species as threatened under the Endangered Species Act.
-PD	=	Proposed for Delisting; the U.S. Fish and Wildlife Service has proposed that this species be removed from the list of Endangered or Threatened Species.
PE	=	Proposed Endangered; the U.S. Fish and Wildlife Service has proposed this species for listing as endangered.
PT	=	Proposed Threatened; the U.S. Fish and Wildlife Service has proposed this species for listing as threatened.
T/SA E/SA	=	Threatened (or Endangered) because of similarity of appearance.

STATE STATUS CODES

INV	=	Inventory Element; The Arkansas Natural Heritage Commission is currently conducting active inventory work on these elements. Available data suggests these elements are of conservation concern. These elements may include outstanding examples of Natural Communities, colonial bird nesting sites, outstanding scenic and geologic features as well as plants and animals, which, according to current information, may be rare, peripheral, or of an undetermined status in the state. The ANHC is gathering detailed location information on these elements.
WAT	=	Watch List Species; The Arkansas Natural Heritage Commission is not conducting active inventory work on these species, however, available information suggests they may be of conservation concern. The ANHC is gathering general information on status and trends of these elements. An "*" indicates the status of the species will be changed to "INV" if the species is verified as occurring in the state (this typically means the agency has received a verified breeding record for the species).
MON	=	Monitored Species; The Arkansas Natural Heritage Commission is currently monitoring information on these species. These species do not have conservation concerns at present. They may be new species to the state, or species on which additional information is needed. The ANHC is gathering detailed location information on these elements.
SE	=	State Endangered; the Arkansas Natural Heritage Commission applies this term to native plant taxa which are in danger of being extirpated from the state.
ST	=	State Threatened; The Arkansas Natural Heritage Commission applies this term to native plant taxa which are believed likely to become endangered in Arkansas in the foreseeable future, based on current inventory information.

DEFINITION OF RANKS

Global Ranks

G1	=	Critically imperiled globally. At a very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.
G2	=	Imperiled globally. At high risk of extinction due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors.
G3	=	Vulnerable globally. At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors.
G4	=	Apparently secure globally. Uncommon but not rare; some cause for long-term concern due to declines or other factors.
G5	=	Secure globally. Common, widespread and abundant.
GH	=	Of historical occurrence, possibly extinct globally. Missing; known from only historical occurrences, but still some hope of rediscovery.
GU	=	Unrankable. Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.

2/25/2008

**Arkansas Natural Heritage Commission
Department of Arkansas Heritage
Inventory Research Program
Elements of Special Concern
15-mile radius of a site in Section 24, T6N, R8E
Crittenden County, Arkansas**

Scientific Name	Common Name	Federal Status	State Status	Global Rank	State Rank
Animals-Invertebrates					
✓ <i>Cicindela hirticollis</i>	beach-dune tiger beetle	-	INV	G5	S2S3
<i>Potamilius alatus</i>	pink heelsplitter	-	INV	G5	S1
Animals-Vertebrates					
<i>Corynorhinus rafinesquii</i>	Rafinesque's big-eared bat	-	INV	G3G4	S3
<i>Haliaeetus leucocephalus</i>	Bald Eagle	-	INV	G5	S2B,S4N
✓ <i>Sterna antillarum athalassos</i>	Interior Least Tern	LE	INV	G4T2Q	S2B

* - No elements of special concern have been recorded within one mile of the Crittenden County site.

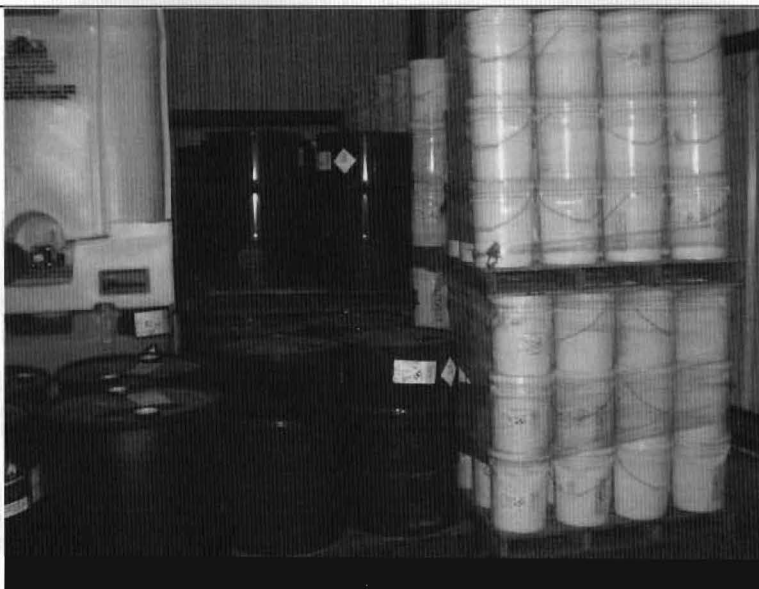
✓- These elements of special concern have been recorded within five miles of the Crittenden County site.

6.0 PHOTOLOG

Arkansas Department of Environmental Quality (ADEQ)

Official Photograph Sheet



Location:	Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301						
Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ		
Photo #	1	Of	67	Date:	28 AUG 07	Time:	1038
Description:		SW corner of the Diaz warehouse. On the right are 5 gal pails of P-Dibromobenzene (99%) and the 55 gal blue drums contain 2-Bromopyridine. Photo facing south.					



Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, (ADEQ)		
Photo #	2	Of	67	Date:	28 AUG 07	Time:	1043
Description:		Items to the left of those in photo #1 include black 55 gal drums and 275 gal totes of n-Propanol (fresh). The 300 gallon plastic wrapped totes on the left are empty.					



Arkansas Department of Environmental Quality (ADEQ)
Official Photograph Sheet

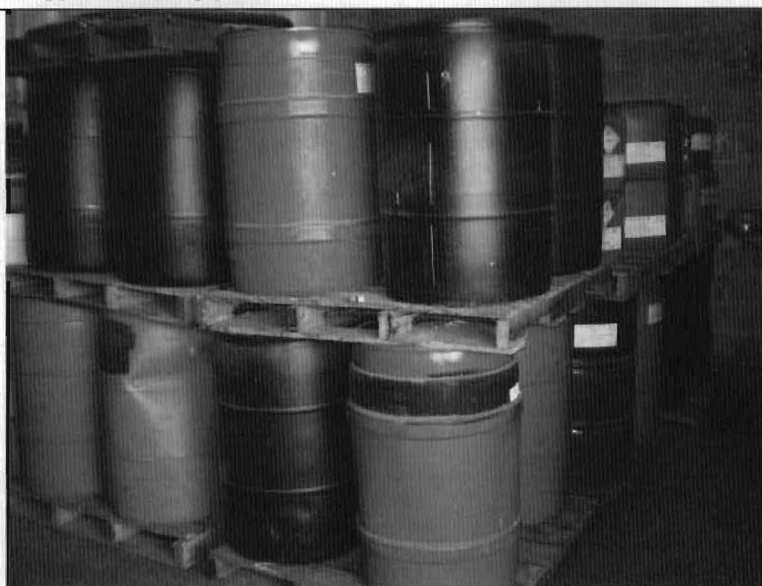
Location:		Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301							
Photographer:		Les Branscum, ADEQ				Witness:		Penny Wilson, ADEQ	
Photo #	3	Of	67			Date:	28 AUG 07	Time:	1047
Description:		Facing south in the Diaz warehouse. These are 5 gal pails of P-Dibromobenzene (99%). Containers on top of pails are empty. These items are to the left of those in photos 1 & 2.							
									
Photographer:		Les Branscum, ADEQ				Witness:		Penny Wilson, ADEQ	
Photo #	4	Of	67			Date:	28 AUG 07	Time:	1050
Description:		Drums to the left of those in photo 3; black 30 gal drums of Aluminum Chloride, Anhydrous and blue 55 gal drums of Methanol.							
									

Arkansas Department of Environmental Quality (ADEQ)
Official Photograph Sheet



Location:	Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301						
Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ		
Photo #	5	Of	67	Date:	28 AUG 07	Time:	1054
Description:		Southeast corner of the Diaz warehouse. Items in foreground are drum pumps with one drum of hazardous waste Benzene behind them. Drums stacked 2 high are Di-Bromobenzene (R).					



Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ		
Photo #	6	Of	67	Date:	28 AUG 07	Time:	1059
Description:		North wall, east side of warehouse. Labeled containers at back right are 55 gal drums of M-Fluorobenzaldehyde on the bottom and 2 kilo containers of M-Bromophenol and 2-Bromopyridine on top pallet.					



Arkansas Department of Environmental Quality (ADEQ)
Official Photograph Sheet

Location:		Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301						
Photographer:		Les Branscum, ADEQ			Witness:		Penny Wilson, ADEQ	
Photo #	7	Of	67		Date:	28 AUG 07	Time:	1103
Description:		Northwest view of north wall, Diaz warehouse. 300 gal white totes contain M-Bromoanisole (high purity).						
								
Photographer:		Les Branscum, ADEQ			Witness:		Penny Wilson, ADEQ	
Photo #	8	Of	67		Date:	28 AUG 07	Time:	1106
Description:		North wall of warehouse, opposite side of totes in photo 7. 5 gal white pails contain P-Bromochlorobenzene. Blue pails on top of these are labeled P-Dibromobenzene.						
								

**Arkansas Department of Environmental Quality (ADEQ)
Official Photograph Sheet**

Location:	Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301						
Photographer:	Les Branscum, ADEQ				Witness:	Penny Wilson, ADEQ	
Photo #	9	Of	67		Date:	28 AUG 07	Time: 1111
Description:	Two 5 gal cans on top of the stack in photo 8. These are labeled 'Phosphorus, Amorphous- Red Phosphorous (99%)'.						



Photographer:	Les Branscum, ADEQ				Witness:	Penny Wilson, ADEQ	
Photo #	10	Of	67		Date:	28 AUG 07	Time: 1114
Description:	Northwest corner of warehouse, 275 gal blue totes labeled N-Propylbromide.						

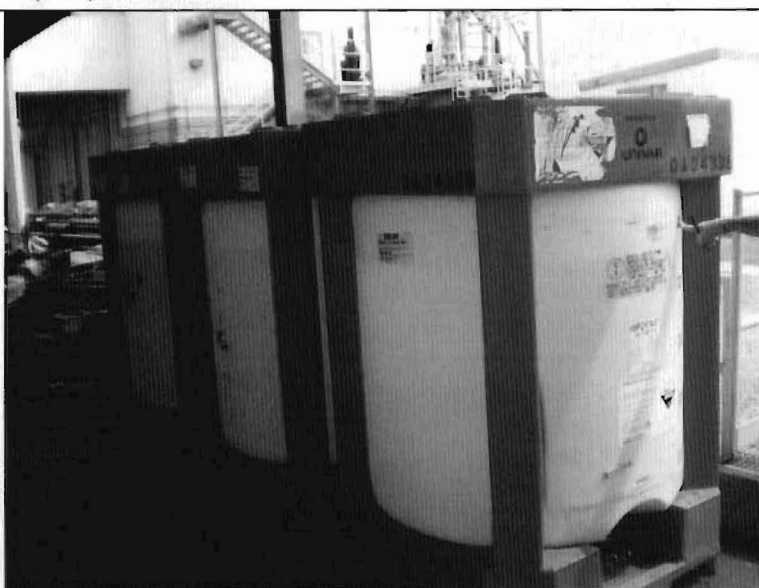


Arkansas Department of Environmental Quality (ADEQ)
Official Photograph Sheet

Location:	Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301							
Photographer:	Les Branscum, ADEQ				Witness:	Penny Wilson, ADEQ		
Photo #	11	Of	67		Date:	28 AUG 07	Time:	1118
Description:	Northwest corner of Diaz warehouse showing 220 gal totes of N-Propylbromide and black 65 lb cans of Ferric Chloride.							



Photographer:	Les Branscum, ADEQ				Witness:	Penny Wilson, ADEQ		
Photo #	12	Of	67		Date:	28 AUG 07	Time:	1122
Description:	275 gal totes on the loading dock, east side of the warehouse facing NE. Totes contain Caustic Soda (50%).							



Arkansas Department of Environmental Quality (ADEQ)

Official Photograph Sheet

Location:	Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301						
Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ		
Photo #	13	Of	67	Date:	28 AUG 07	Time:	1124
Description:		View of loading dock on east side of warehouse facing north. Approx. 12 non hazardous blue drums are on the dock.					



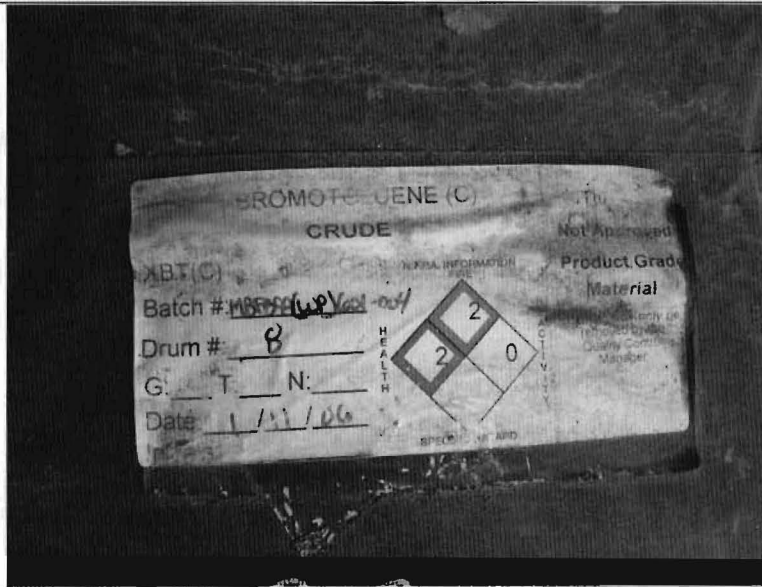
Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ		
Photo #	14	Of	67	Date:	28 AUG 07	Time:	1127
Description:		Forklift path on north end of loading dock facing north. Above ground tanks in containment are to the left.					



Arkansas Department of Environmental Quality (ADEQ)

Official Photograph Sheet

Location:	Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301						
Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ		
Photo #	15,16	Of	67	Date:	28 AUG 07	Time:	1135
Description:		Close up of label on drum of Bromotoluene (C) showing date of 1-11-06. This drum was on the right side of the loading dock adjacent to the warehouse. Photos 15&16 were of the same label.					



Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ		
Photo #	17	Of	67	Date:	28 AUG 07	Time:	1138
Description:		North end of the loading dock showing the condition of some of the poly drums. These drums were filled while the contents were hot, causing them to indent.					



**Arkansas Department of Environmental Quality (ADEQ)
Official Photograph Sheet**

Location:	Díaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301						
Photographer:	Les Branscum, ADEQ				Witness:	Penny Wilson, ADEQ	
Photo #	18	Of	67		Date:	28 AUG 07	Time: 1150
Description:	Facing north on the forklift pad. Eight 55 gal drums labeled 'MBFB65 (WP) (WET PURE)'.						



Photographer:	Les Branscum, ADEQ				Witness:	Penny Wilson, ADEQ	
Photo #	19	Of	67		Date:	28 AUG 07	Time: 1153
Description:	275 gal totes to the left of the drums in photo 18 labeled M-Bromofluorobenzene 65%.						



Arkansas Department of Environmental Quality (ADEQ)

Official Photograph Sheet



Location:	Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301						
Photographer:	Les Branscum, ADEQ				Witness:	Penny Wilson, ADEQ	
Photo #	20	Of	67		Date:	28 AUG 07	Time: 1155
Description:	275 gal totes on right side of forklift path, facing NE. The blue tote is labeled M-Bromofluorobenzene; white ones contain pit water (zinc).						



Photographer:	Les Branscum, ADEQ				Witness:	Penny Wilson, ADEQ	
Photo #	21	Of	67		Date:	28 AUG 07	Time: 1157
Description:	Continuing north on the right side of the fork lift path, stand of 55 gal drums. Labels on drums at right read 'DBFB Dibromotoluene Mix'.						





Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet

Location:		Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301					
Photographer:		Les Branscum, ADEQ			Witness:		Penny Wilson, ADEQ
Photo #	22	Of	67		Date:	28 AUG 07	Time: 1159
Description:		Left side of forklift path facing north. The eight 55 gal drums centered in the photo are all labeled 'DBFB, Dibromotoluene Mix'.					
							
Photographer:		Les Branscum, ADEQ			Witness:		Penny Wilson, ADEQ
Photo #	23	Of	67		Date:	28 AUG 07	Time: 1202
Description:		Drums just north of those in photo 22. Blue drum to the left is labeled 'MBFB Waste pads/filters'. New and old tank farms are to the left of the photo.					
							

Arkansas Department of Environmental Quality (ADEQ)

Official Photograph Sheet

Location:	Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301						
Photographer:	Les Branscum, ADEQ				Witness:	Penny Wilson, ADEQ	
Photo #	24	Of	67		Date:	28 AUG 07	Time: 1204
Description:	Drums on pad east of 'tank farm', facing NW. Drum on left is labeled 'Mixed Organics (R) Overhead'.						
							
Photographer:	Les Branscum, ADEQ				Witness:	Penny Wilson, ADEQ	
Photo #	25	Of	67		Date:	28 AUG 07	Time: 1212
Description:	Opposite view of drums in photo 24, facing SW with tank farm in background. Last 4 drums on the end of the left row and 2 rows to the right are labeled X-Bromotoluene (T) Bottoms.						
							

Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet

Location:	Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301						
Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ		
Photo #	26	Of	67	Date:	28 AUG 07	Time:	1215
Description:	Drums of X-Bromotoluene (C) Crude on opposite end of drums in photo 25, facing south.						


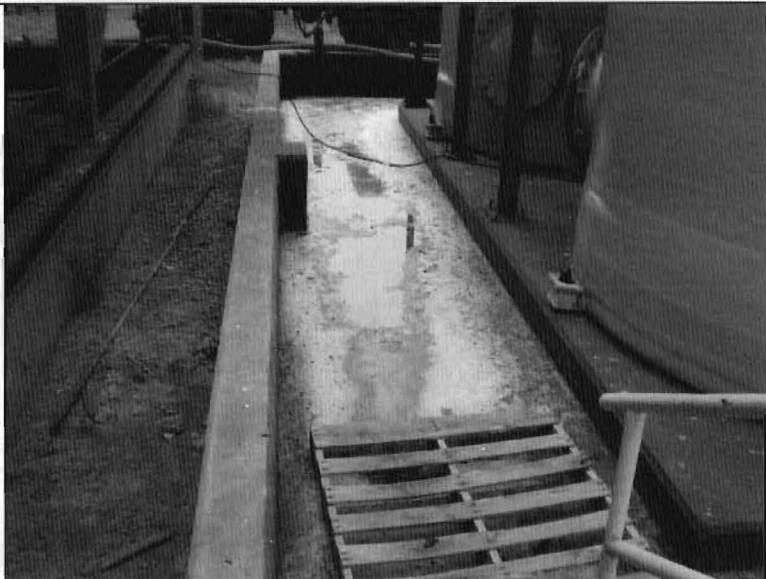


Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ		
Photo #	27	Of	67	Date:	28 AUG 07	Time:	1319
Description:	Explanation board in front of the old and new 'tank farms', facing west.						



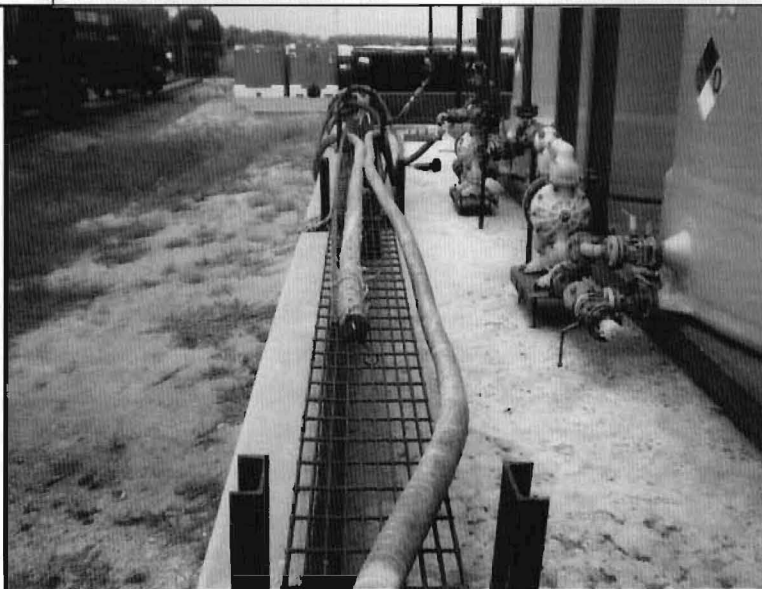
Arkansas Department of Environmental Quality (ADEQ)

Official Photograph Sheet

Location:		Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301							
Photographer:		Les Branscum, ADEQ				Witness:		Penny Wilson, ADEQ	
Photo #	28	Of	67			Date:	28 AUG 07	Time:	1328
Description:		North side of containment sump in old tank farm. Spilfyter test strip indicated a pH of 6 in the sump water.							
									
Photographer:		Les Branscum, ADEQ				Witness:		Penny Wilson, ADEQ	
Photo #	29	Of	67			Date:	28 AUG 07	Time:	1331
Description:		New tank farm containment area with standing water. The Spilfyter test strip indicated the Ph for this water between 9 and 10.							
									

Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet

Location:	Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301						
Photographer:	Les Branscum, ADEQ				Witness:	Penny Wilson, ADEQ	
Photo #	30	Of	67		Date:	28 AUG 07	Time: 1336
Description:		West side of containment in photo 29 showing bare dirt adjacent to containment area.					



Photographer:	Les Branscum, ADEQ				Witness:	Penny Wilson, ADEQ	
Photo #	31	Of	67		Date:	28 AUG 07	Time: 1346
Description:		First 2 rows of drums on drum pad north of the tank farms, facing west. The 2 drums in the foreground are labeled 'X-Bromotoluene (T) Bottoms'. Yellow salvage drums can be seen in the background.					



Arkansas Department of Environmental Quality (ADEQ)

Official Photograph Sheet

Location:	Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301						
Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ		
Photo #	32	Of	67	Date:	28 AUG 07	Time:	1348
Description:	Next 2 rows (row 3&4) of drums on drum pad north of the tank farm, facing west. Drum in left foreground is labeled Dibromotoluene.						



Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ		
Photo #	33	Of	67	Date:	28 AUG 07	Time:	1352
Description:	Rows 5&6 on the drum pad, facing west.						



Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet

Location:	Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301						
Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ		
Photo #	34	Of	67	Date:	28 AUG 07	Time:	1354
Description:	View of rows 5&6 from opposite end showing blue drum on right has a bulging top. Drum is labeled 'M-Dibromobenzene'. Photo facing east.						



Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ		
Photo #	35	Of	67	Date:	28 AUG 07	Time:	1358
Description:	Poly drum (3 rd from end in above photo of row 6) not leaking but crushed in, no label visible. Photo facing east.						



Arkansas Department of Environmental Quality (ADEQ)
Official Photograph Sheet

Location:	Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301						
Photographer:	Les Branscum, ADEQ				Witness:	Penny Wilson, ADEQ	
Photo #	36	Of	67		Date:	28 AUG 07	Time: 1402
Description:	Rows 7&8 on drum pad, facing west. Rail car in background is labeled 'Fluorobenzene' UN 2387, Flammable Liquid.						

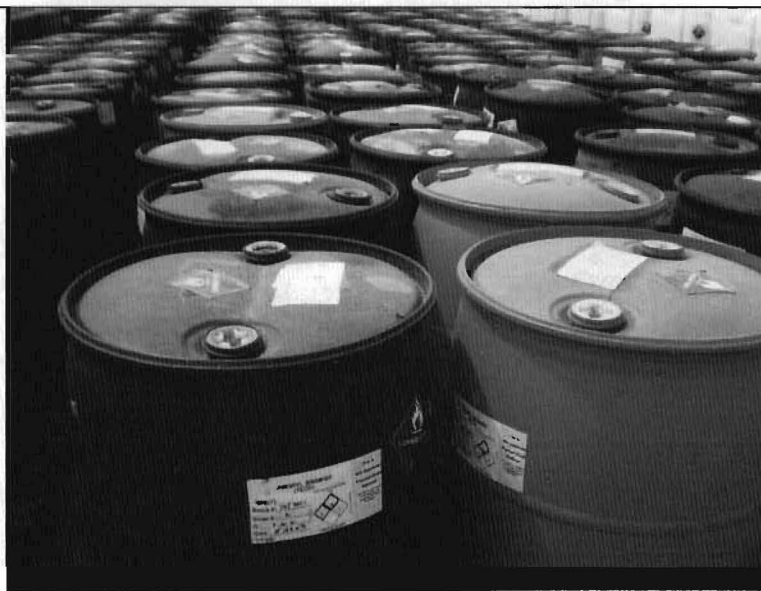


Photographer:	Les Branscum, ADEQ				Witness:	Penny Wilson, ADEQ	
Photo #	37	Of	67		Date:	28 AUG 07	Time: 1403
Description:	Residue on top of 2 nd drum in row 8, photo 36. Drum is labeled 'Bromobenzene recycle'.						



Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet

Location:		Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301						
Photographer:		Les Branscum, ADEQ			Witness:		Penny Wilson, ADEQ	
Photo #	38	Of	67		Date:	28 AUG 07	Time:	1405
Description:		Rows 9&10 on drum pad, facing west. Labels on first two drums indicate they contain '-Propyl Bromide (Tech)'.						



Photographer:		Les Branscum, ADEQ			Witness:		Penny Wilson, ADEQ	
Photo #	39	Of	67		Date:	28 AUG 07	Time:	1406
Description:		Rows 11&12 on drum pad, facing west. First drum in row 12 is labeled 'HCL/HBR mix SG>1.1'. It is also dated 1-31-06.						

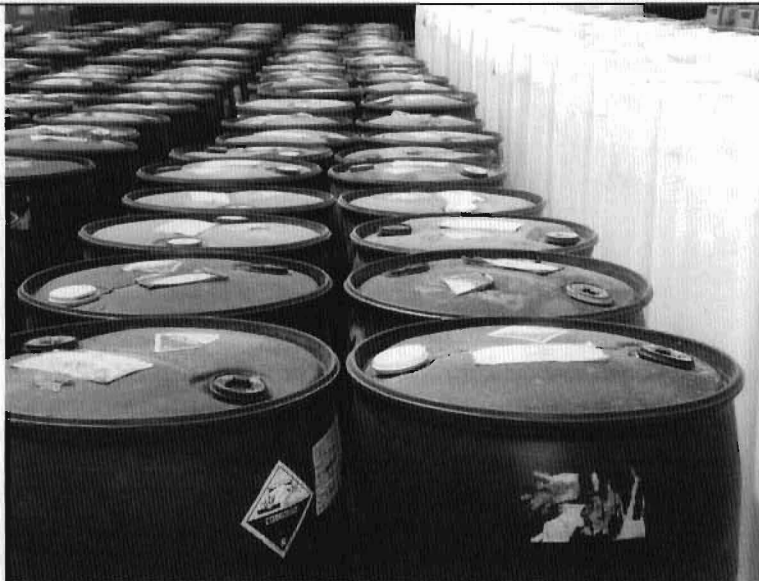


Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet

Location:	Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301							
Photographer:	Les Branscum, ADEQ				Witness:	Penny Wilson, ADEQ		
Photo #	40	Of	67		Date:	28 AUG 07	Time:	1408
Description:		Bulging lid on corrosive labeled drum in row 11. Product label indicates the drum contains 'HCL/HBR mix HG>1.1', DATED 1-21-07.						



Photographer:	Les Branscum, ADEQ				Witness:	Penny Wilson, ADEQ		
Photo #	41	Of	67		Date:	28 AUG 07	Time:	1409
Description:		Rows 13&14 on drum pad, facing west.						



Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet

Location:	Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301						
Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ		
Photo #	42	Of	67	Date:	28 AUG 07	Time:	1410
Description:	Row 15 on drum pad, facing west. Totes are labeled 'Methanol'.						



Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ		
Photo #	43	Of	67	Date:	28 AUG 07	Time:	1412
Description:	Row 16 facing west, drum in front is labeled 'MBFB(H) Nondistilled Water'						



Arkansas Department of Environmental Quality (ADEQ)

Official Photograph Sheet

Location:	Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301						
Photographer:	Les Branscum, ADEQ				Witness:	Penny Wilson, ADEQ	
Photo #	44	Of	67		Date:	28 AUG 07	Time: 1413

Description: Row 17 facing west, majority of row is totes two drums wide.





Photographer:	Les Branscum, ADEQ				Witness:	Penny Wilson, ADEQ	
Photo #	45	Of	67		Date:	28 AUG 07	Time: 1416

Description: Row 18 facing west, front drum is labeled 'Bromobenzene PDBB-Extraction'.



Arkansas Department of Environmental Quality (ADEQ)
Official Photograph Sheet

Location:		Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301					
Photographer:		Les Branscum, ADEQ			Witness:		Penny Wilson, ADEQ
Photo #	46	Of	67		Date:	28 AUG 07	Time:
Description:		Row 19 facing west. Blue drum is labeled 'Bromobenzene Pot Bottoms'.					
							
Photographer:		Les Branscum, ADEQ			Witness:		Penny Wilson, ADEQ
Photo #	47	Of	67		Date:	28 AUG 07	Time:
Description:		Row 20 facing west on drum pad. Drums in front are labeled 'm-Bromofluorobenzene Recycle'.					
							

Arkansas Department of Environmental Quality (ADEQ)

Official Photograph Sheet

Location:	Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301						
Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ		
Photo #	48	Of	67		Date:	28 AUG 07	Time: 1423
Description:	Last rows on drum pad progressing from south to north. Photo is facing NW.						



Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ		
Photo #	49	Of	67		Date:	28 AUG 07	Time: 1425
Description:	Drum in upper left corner of photo 48 that appeared black with a blue lid. Drum is discolored by contents. Label indicates contents are 'Fluorobenzene (Recovered) Acidic' and dated 6-30-07.						



Arkansas Department of Environmental Quality (ADEQ)
Official Photograph Sheet

Location:	Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301							
Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ			
Photo #	50	Of	67		Date:	28 AUG 07	Time:	1426
Description:	Drums at east end of drum pad, facing north. Drum to right is labeled 'MBFB Nondistilled Water'							





Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ			
Photo #	51	Of	67		Date:	28 AUG 07	Time:	1431
Description:	Drums on East end of drum pad, (drums in photo 50 are in upper left corner) majority are non-hazardous.							



Arkansas Department of Environmental Quality (ADEQ)

Official Photograph Sheet

Location:		Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301					
Photographer:		Les Branscum, ADEQ			Witness:		Penny Wilson, ADEQ
Photo #	52	Of	67		Date:	28 AUG 07	Time: 1434
Description:		Leaking drum on right side of drums in photo 51.					
							
Photographer:		Les Branscum, ADEQ			Witness:		Penny Wilson, ADEQ
Photo #	53	Of	67		Date:	28 AUG 07	Time: 1434
Description:		Close up of leaking drum showing salt like crystals that have formed around the damaged base of the drum. The leaking material had solidified by the time of the photo, no liquid was seen.					
							

Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet



Location:	Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301							
Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ			
Photo #	54	Of	67		Date:	28 AUG 07	Time:	1437
Description:	Close up of label on damaged drum. Label indicates contents are 'Bromobenzene (Z) with high DBB/TBB'.							



Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ			
Photo #	55	Of	67		Date:	28 AUG 07	Time:	1439
Description:	North pad, east of previous photos and facing east showing full drums in foreground and empties stacked on their side in background.							



Arkansas Department of Environmental Quality (ADEQ)
Official Photograph Sheet

Location:		Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301							
Photographer:		Les Branscum, ADEQ				Witness:		Penny Wilson, ADEQ	
Photo #	56	Of	67		Date:	28 AUG 07	Time:	1439	
Description:		Continuation of drums in photo 55, facing east. Process Building is to the right in background.							
									
Photographer:		Les Branscum, ADEQ				Witness:		Penny Wilson, ADEQ	
Photo #	57	Of	67		Date:	28 AUG 07	Time:	1443	
Description:		Drums on Bulk Truck Pad, facing south. Process Building is to the left.							
									

Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet

Location:	Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301						
Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ		
Photo #	58	Of	67	Date:	28 AUG 07	Time:	1448
Description:	Drum labeled 'Hydrobromic Acid' at south end of Bulk Truck Pad.						


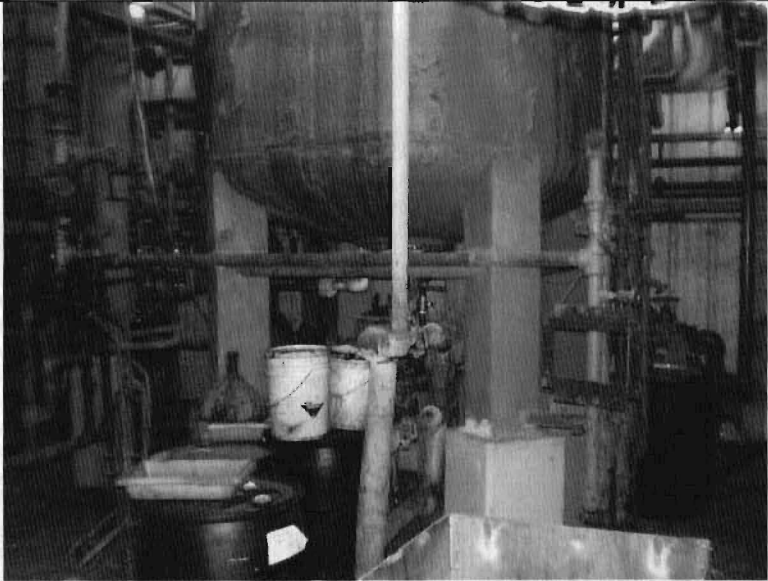


Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ		
Photo #	59	Of	67	Date:	28 AUG 07	Time:	1448
Description:	Close up of drum in photo 58 showing date of 7-19-05.						



Arkansas Department of Environmental Quality (ADEQ)

Official Photograph Sheet

Location:		Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301						
Photographer:		Les Branscum, ADEQ			Witness:		Penny Wilson, ADEQ	
Photo #	60	Of	67		Date:	28 AUG 07	Time:	1451
Description:		View of South Pad south of Process Building, facing east.						
								
Photographer:		Les Branscum, ADEQ			Witness:		Penny Wilson, ADEQ	
Photo #	61	Of	67		Date:	28 AUG 07	Time:	1456
Description:		Facing east from south end of Process Building, (inside) showing one of the 2000 gal reaction vessels.						
								

Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet

Location:	Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301							
Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ			
Photo #	62	Of	67		Date:	28 AUG 07	Time:	1456
Description:		View to the left of photo 61 inside Process Building.						

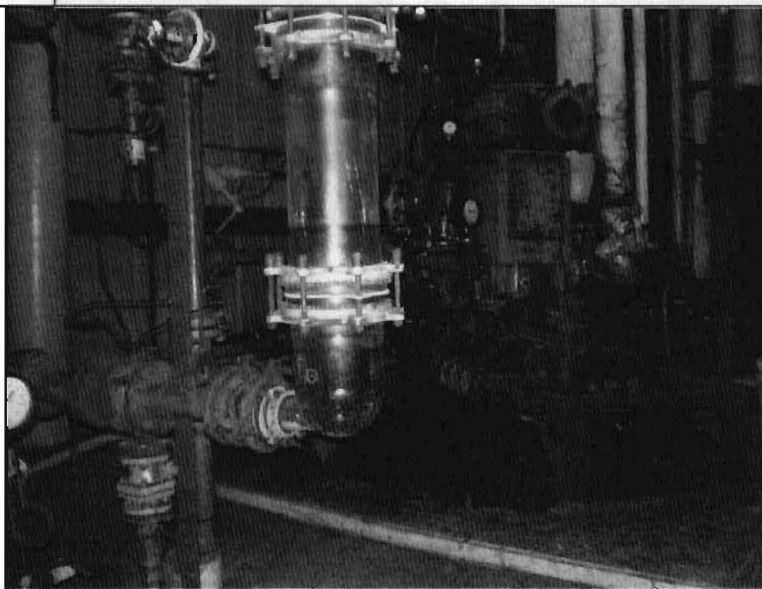


Photographer:	Les Branscum, ADEQ			Witness:	Penny Wilson, ADEQ			
Photo #	63	Of	67		Date:	28 AUG 07	Time:	1500
Description:		Facing south inside Process Building, west side. Tank in foreground has approx. 7600 kilos of Liquid Bromine since Jan 07.						



Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet



Location:	Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301						
Photographer:	Les Branscum, ADEQ				Witness:	Penny Wilson, ADEQ	
Photo #	64	Of	67		Date:		Time: 1506
Description:	Second floor of Process Building showing a Decanter with liquid still inside. Several were in this condition.						



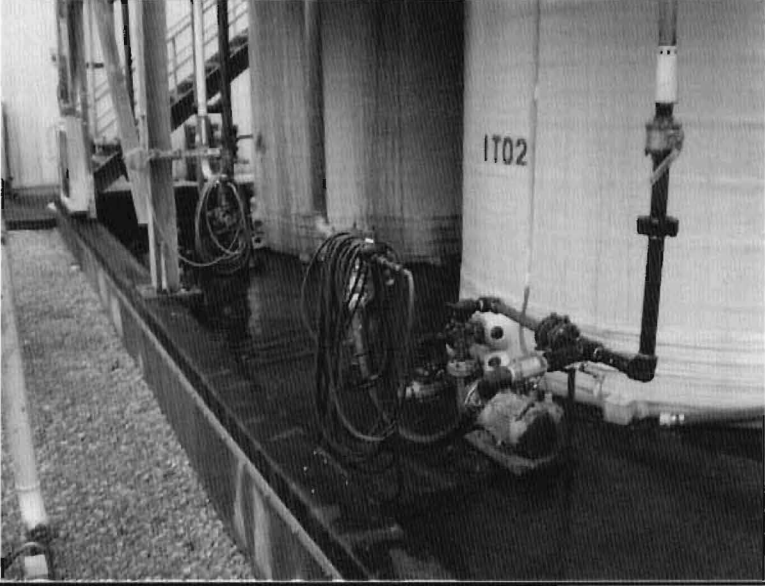

Photographer:	Les Branscum, ADEQ				Witness:	Penny Wilson, ADEQ	
Photo #	65	Of	67		Date:	28 AUG 07	Time: 1530
Description:	Facing north on the north end of the Diaz property. ADEQ Water Inspector Brent Walker at left as Facility Trustee James Luker and former employee Ron Reid close the Facility storm water drain.						





Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet

Location:	Diaz Intermediates Corp., 301 Wyanoke Rd., West Memphis, AR 72301						
Photographer:	Les Branscum, ADEQ				Witness:	Penny Wilson, ADEQ	
Photo #	66	Of	67		Date:	28 AUG 07	Time: 1537
Description:	Storm drain gate almost closed but had to be hammered the last inch.						
							
Photographer:	Les Branscum, ADEQ				Witness:	Penny Wilson, ADEQ	
Photo #	67	Of	67		Date:	28 AUG 07	Time: 1550
Description:	Storm drain fully closed with dirt pushed against it to help seal.						
							


Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet

Location:		Diaz Intermediates, 301 Wyanoke Rd., West Memphis, AR							
Photographer:		Les Branscum, ADEQ				Witness:		N/A	
Photo #	1	Of	5			Date:	24 OCT 07	Time:	1315
Description:		'Old' tank containment showing level of rain water. This containment is covered and water level is not as high as in 'new' tank containment.							
									
Photographer:		Les Branscum, ADEQ				Witness:		N/A	
Photo #	2	Of	5			Date:	24 OCT 07	Time:	1319
Description:		Second or 'new' tank containment area at Diaz. Water level from rain is quite high. The 'old' tank containment is to the left in the photo.							
									



Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet

Location:	Diaz Intermediates, 301 Wyanoke Rd, West Memphis, AR						
Photographer:	Les Branscum, ADEQ				Witness:	N/A	
Photo #	3	Of	5		Date:	24 OCT 07	Time: 1321
Description:	View of north drum pad showing standing water in containment.						
							
Photographer:	Les Branscum, ADEQ				Witness:	N/A	
Photo #	4	Of	5		Date:	24 OCT 07	Time: 1323
Description:	Dynamac contract personnel begin their drum inventory on the ramp outside the Diaz warehouse.						
							



Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet

Location:	Diaz Intermediates, 301 Wyanoke Rd., West Memphis, AR						
Photographer:	Les Branscum, ADEQ			Witness:	N/A		
Photo #	5	Of	5	Date:	24 OCT 07	Time:	1326
Description:	View inside the first floor of the Diaz production building showing flooded floor.						
							
Photographer:				Witness:			
Photo #		Of		Date:		Time:	
Description:							


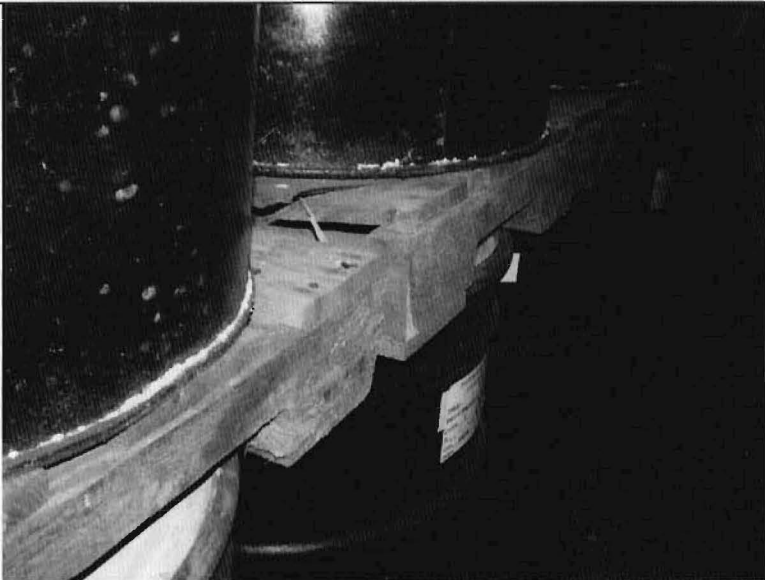
Arkansas Department of Environmental Quality (ADEQ)
Official Photograph Sheet

Location:		Diaz Intermediates							
Photographer:		Les Branscum, ADEQ <i>LB</i>				Witness:		none	
Photo #	1	Of	35		Date:	29 NOV 07	Time:	1222	
Description:		Double row, 2 high stack of black 55 gallon steel drums to the left as you enter the Diaz warehouse. Note hazardous waste drums in front of row.							
									
Photographer:		Les Branscum, ADEQ <i>LB</i>				Witness:		none	
Photo #	2	Of	35		Date:	29 NOV 07	Time:	1226	
Description:		55 gallon metal drum at back of bottom row in photo 1. Crystalline substance appears to have come from a leak in the drum.							
									



Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet

Location:		Diaz Intermediates					
Photographer:		Les Branscum, ADEQ			Witness:		none
Photo #	3	Of	35		Date:	29 NOV 07	Time: 1228
Description:		Close up of crystal substance on drum and pallet in photo 2. Note that concrete floor is dry.					
							
Photographer:		Les Branscum, ADEQ			Witness:		none
Photo #	4	Of	35		Date:	29 NOV 07	Time: 1231
Description:		Label on drum in photos 2 & 3. All drums in this row that were leaking had this label and date of 10-03-06.					
							

Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet

Location:	Diaz Intermediates						
Photographer:	Les Branscum, ADEQ				Witness:	none	
Photo #	5	Of	35		Date:	29 NOV 07	Time: 1233
Description:	Drum on inside row and above one in photos 2 & 3. Bottoms of most drums in these 2 rows had some deterioration.						
							
Photographer:	Les Branscum, ADEQ				Witness:	none	
Photo #	6	Of	35		Date:	29 NOV 07	Time: 1235
Description:	Drums on same row as one in photos 2 & 3 but on second tier .						
							

Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet

Location:	Diaz Intermediates						
Photographer:	Les Branscum, ADEQ				Witness:	none	
Photo #	7	Of	35		Date:	29 NOV 07	Time: 1238
Description:	View of 3 rd drum forward from one in photo 2. Note concrete appears to have been eaten by earlier leak(s).						
							
Photographer:	Les Branscum, ADEQ				Witness:	none	
Photo #	8	Of	35		Date:	29 NOV 07	Time: 1240
Description:	Label on drum in photo 7.						
							

Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet



Location:	Diaz Intermediates							
Photographer:	Les Branscum, ADEQ				Witness:	none		
Photo #	9	Of	35		Date:	29 NOV 07	Time:	1242
Description:	Drum on top row above one in photo 8. Contents appear to have eaten through the drum and residue fallen on the pallet.							





Photographer:	Les Branscum, ADEQ				Witness:	none		
Photo #	10	Of	35		Date:	29 NOV 07	Time:	1244
Description:	Label on drum in photo 9.							





Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet

Location:		Diaz Intermediates					
Photographer:		Les Branscum, ADEQ			Witness:		none
Photo #	11	Of	35		Date:	29 NOV 07	Time: 1245
Description:		Top drums at end of row, some deterioration has started. Drum in photo 9 is visible through the 2 in front.					
							
Photographer:		Les Branscum, ADEQ			Witness:		none
Photo #	12	Of	35		Date:	29 NOV 07	Time: 1250
Description:		Rust forming on the bottom rims of 2 of the 65 lb. cans of Ferric Chloride, Anhydrous. These drums are located on the opposite side of the warehouse, opposite end by the back door.					
							

Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet

Location:	Diaz Intermediates						
Photographer:	Les Branscum, ADEQ				Witness:	none	
Photo #	13	Of	35		Date:	29 NOV 07	Time: 1254
Description:	View of residue left after the EPA Hazcat event. This is located on the loading ramp just outside the warehouse.						
							
Photographer:	Les Branscum, ADEQ				Witness:	none	
Photo #	14	Of	35		Date:	29 NOV 07	Time: 1255
Description:	Close up of the pails in photo 13.						
							

Arkansas Department of Environmental Quality (ADEQ)
Official Photograph Sheet

Location:		Diaz Intermediates					
Photographer:		Les Branscum, ADEQ			Witness:		none
Photo #	15	Of	35		Date:	29 NOV 07	Time: 1255
Description:		Close up of trash bags left by the EPA. Labels read 'hot trash' and 'broken glass'.					
							
Photographer:		Les Branscum, ADEQ			Witness:		none
Photo #	16	Of	35		Date:	29 NOV 07	Time: 1306
Description:		View of onsite rail cars from back of drum pad. There were no visible leaks or visible evidence of old leaks on or under any rail cars.					
							

Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet



Location:	Diaz Intermediates							
Photographer:	Les Branscum, ADEQ				Witness:	none		
Photo #	17	Of	35		Date:	29 NOV 07	Time:	1310
Description:		Containment for the covered tank farm enclosing 4 tanks. Valves in the piping system are being submerged and rusting. Ice will possibly do more damage to these.						





Photographer:	Les Branscum, ADEQ				Witness:	none		
Photo #	18	Of	35		Date:	29 NOV 07	Time:	1312
Description:		Containment in the uncovered tank farm. Water is at a much higher level from rain events.						



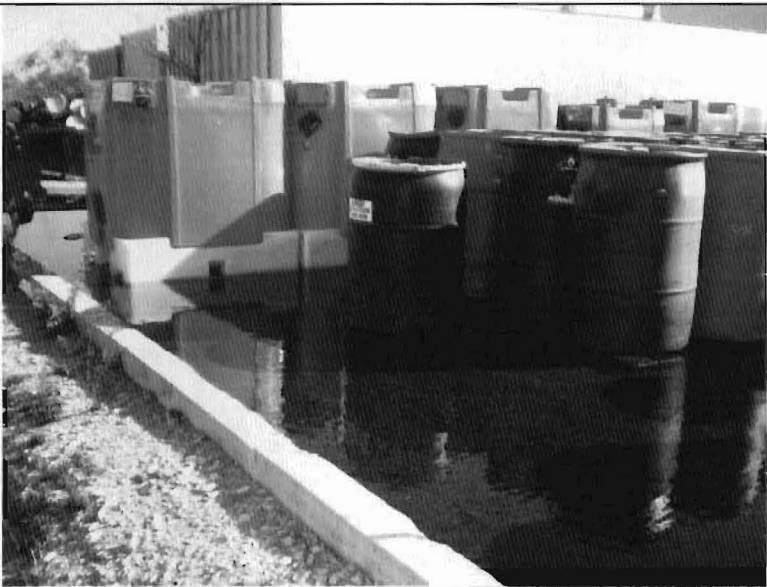

Arkansas Department of Environmental Quality (ADEQ)
Official Photograph Sheet

Location:		Diaz Intermediates					
Photographer:		Les Branscum, ADEQ			Witness:		none
Photo #	19	Of	35		Date:	29 NOV 07	Time: 1312
Description:		View of both containment areas in covered and uncovered tank farms. Uncovered containment is to the left.					
							
Photographer:		Les Branscum, ADEQ			Witness:		none
Photo #	20	Of	35		Date:	29 NOV 07	Time: 1316
Description:		Blue drum on 5 th row from the uncovered tank containment. Other drums on pad may be in similar condition but may not be visible due to tight rows of drums.					
							



Arkansas Department of Environmental Quality (ADEQ)
Official Photograph Sheet

Location:	Diaz Intermediates						
Photographer:	Les Branscum, ADEQ				Witness:	none	
Photo #	21	Of	35		Date:	29 NOV 07	Time: 1316
Description:	Label on top of drum in photo 20.						
							
Photographer:	Les Branscum, ADEQ				Witness:	none	
Photo #	22	Of	35		Date:	29 NOV 07	Time: 1320
Description:	Standing water at back of drum pad containment. The pad is sloped; less than half of the pad had water.						
							

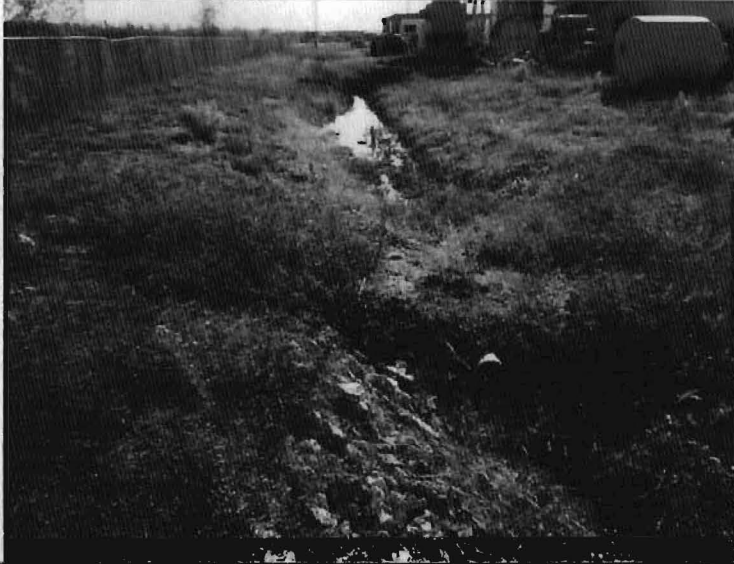
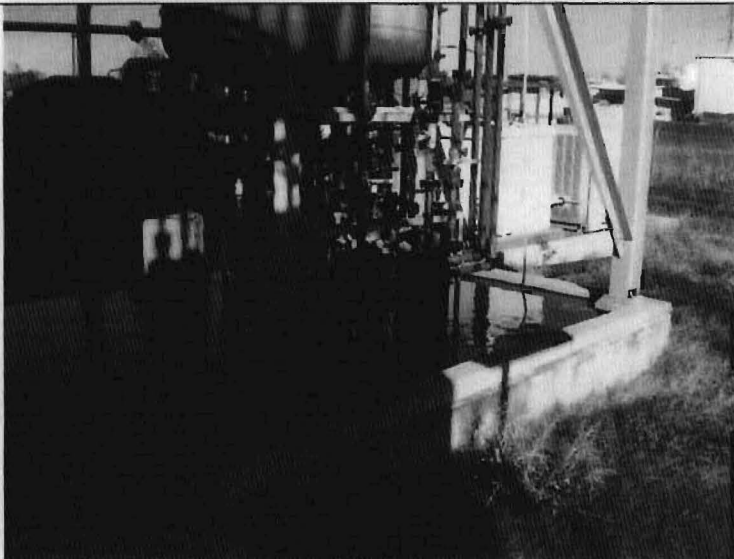
Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet

Location:		Diaz Intermediates					
Photographer:		Les Branscum, ADEQ			Witness:		none
Photo #	23	Of	35		Date:	29 NOV 07	Time: 1320
Description:		View of drum pad at opposite end from photo 22. Label on drum in water reads, 'DANGER CONTAINS BENZENE CANCER HAZARD'.					
							
Photographer:		Les Branscum, ADEQ			Witness:		none
Photo #	24	Of	35		Date:	29 NOV 07	Time: 1325
Description:		Corner of drum pad in far left of photo 23. Note where water has leaked over containment. Drainage ditch can be seen at right.					
							



Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet

Location:		Diaz Intermediates					
Photographer:		Les Branscum, ADEQ			Witness:		none
Photo #	25	Of	35		Date:	29 NOV 07	Time: 1328
Description:							
							
Photographer:		Les Branscum, ADEQ			Witness:		none
Photo #	26	Of	35		Date:	29 NOV 07	Time: 1334
Description:							
							

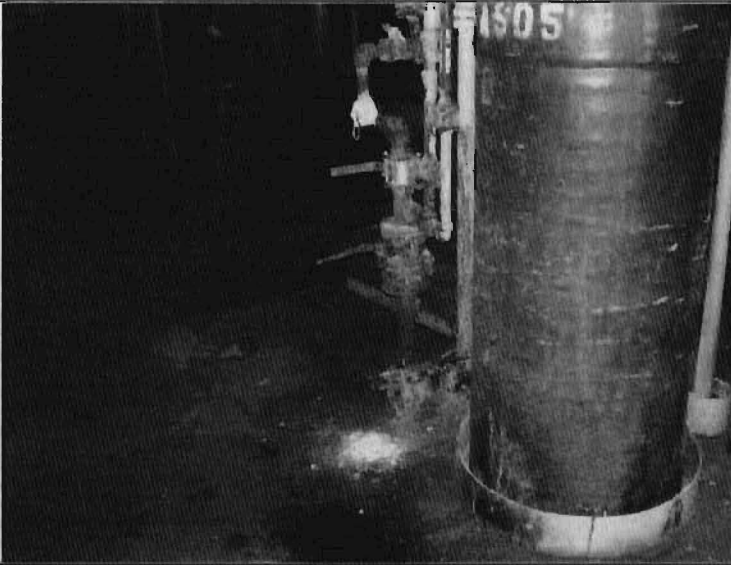

**Arkansas Department of Environmental Quality (ADEQ)
Official Photograph Sheet**

Location:	Diaz Intermediates						
Photographer:	Les Branscum, ADEQ <i>LB</i>				Witness:	none	
Photo #	27	Of	35		Date:	29 NOV 07	Time: 1335
Description:	View of the ditch leading to the storm gate in photo 26. Note level of water.						
							
Photographer:	Les Branscum, ADEQ <i>LB</i>				Witness:	none	
Photo #	28	Of	35		Date:	29 NOV 07	Time: 1410
Description:	Tank system and containment at the back of the Production Building. Valves are rusting and the water is at the top of the containment.						
							

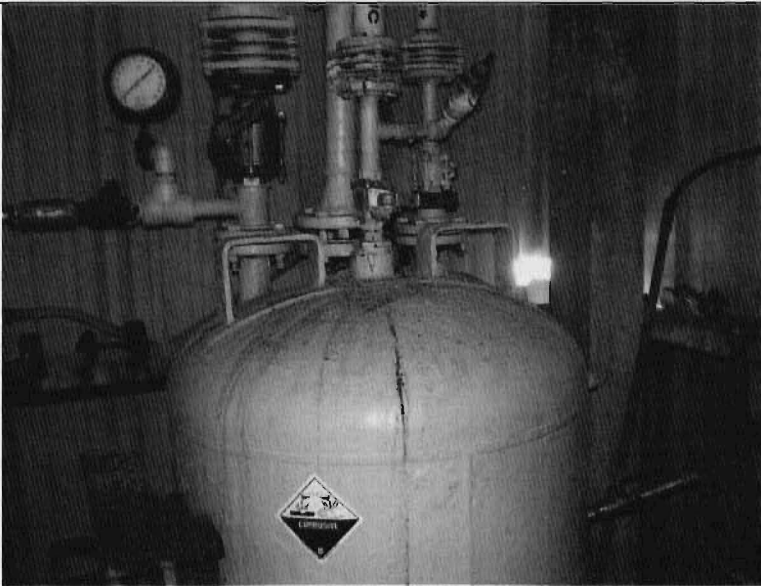
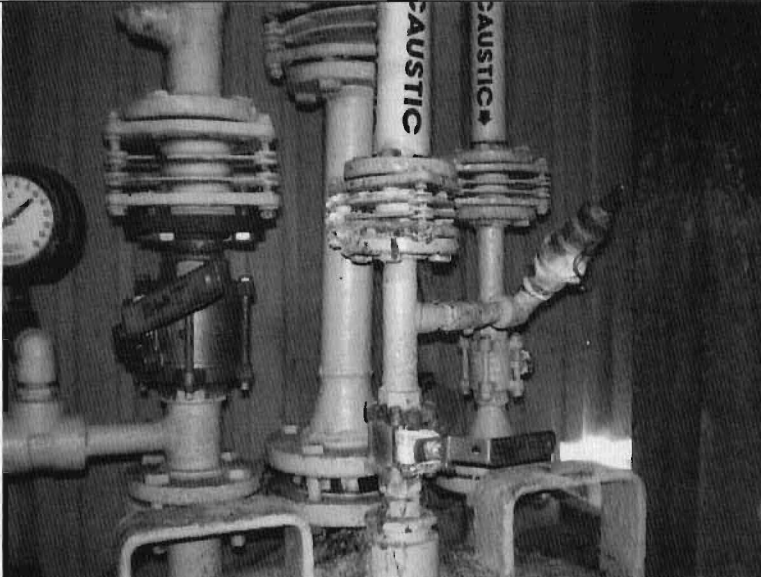
**Arkansas Department of Environmental Quality (ADEQ)
Official Photograph Sheet**

Location:		Diaz Intermediates					
Photographer:		Les Branscum, ADEQ <i>LB</i>			Witness:		none
Photo #	29	Of	35		Date:	29 NOV 07	Time: 1413
Description:		View inside the Production Building 1 st floor showing water still standing on much of the floor.					
							
Photographer:		Les Branscum, ADEQ <i>LB</i>			Witness:		none
Photo #	30	Of	35		Date:	29 NOV 07	Time: 1415
Description:		Looking up from the same position as photo 29. Corrosion and rust is accumulating on valves and pipes. Rust is increasing on the tanks as the paint peels.					
							

**Arkansas Department of Environmental Quality (ADEQ)
Official Photograph Sheet**


Location:		Diaz Intermediates					
Photographer:		Les Branscum, ADEQ <i>LB</i>			Witness:		none
Photo #	31	Of	35		Date:	29 NOV 07	Time: 1419
Description:		Caustic valve leak on 2 nd floor of the Production Building. Note dried residue under the valve.					
							
Photographer:		Les Branscum, ADEQ <i>LB</i>			Witness:		none
Photo #	32	Of	35		Date:	29 NOV 07	Time: 1420
Description:		Close up of the rusted and corroded valve in photo 31.					
							

Arkansas Department of Environmental Quality (ADEQ)
Official Photograph Sheet

Location:	Diaz Intermediates						
Photographer:	Les Branscum, ADEQ				Witness:	none	
Photo #	33	Of	35		Date:	29 NOV 07	Time: 1423
Description:	Corrosive tank and valve system in Production building, second floor.						
							
Photographer:	Les Branscum, ADEQ				Witness:	none	
Photo #	34	Of	35		Date:	29 NOV 07	Time: 1423
Description:	Close up of piping system on tank in photo 33 showing corrosion on pipe system.						
							



Arkansas Department of Environmental Quality (ADEQ)

Official Photograph Sheet



Location:		Diaz Intermediates							
Photographer:		Les Branscum, ADEQ				Witness:		none	
Photo #	35	Of	35			Date:	29 NOV 07	Time:	1430
Description:		Some of the overhead pipes on the 2 nd floor of the Production Building showing extensive rust.							
									
Photographer:						Witness:			
Photo #		Of				Date:		Time:	
Description:									

Arkansas Department of Environmental Quality (ADEQ)

Official Photograph Sheet

Location:		Diaz Intermediates, West Memphis, AR							
Photographer:		Les Branscum, ADEQ			Witness:		Charles Fisher, EPA		
Photo #	1	Of	16			Date:	29 JAN 08	Time:	1157
Description:		View of the left side of the warehouse as you enter from the loading dock. All leaking drums have been over-packed. Poly drums in foreground are from the north wall of the warehouse. They are Hydrobromic Acid x 4 and 1 each M-Bromoflorobenzene, N-Heptylbromide, 2-3 Dibromobutane and 1-2 Bromopyridine.							
									
Photographer:		Les Branscum, ADEQ			Witness:		Charles Fisher, EPA		
Photo #	2	Of	16			Date:	29 JAN 08	Time:	1200
Description:		Over-pack drums in back of row in photo 1. These contain PPE, sorbents and 'hot trash' from the EPA hazcat done in OCT 07.							
									

Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet

Location:		Diaz Intermediates, West Memphis, AR						
Photographer:		Les Branscum, ADEQ			Witness:		Charles Fisher, EPA	
Photo #	3	Of	16		Date:	29 JAN 08	Time:	1210
Description:		Three totes that the pumpable contents of the leaking metal drums were pumped into.						
								
Photographer:		Les Branscum, ADEQ			Witness:		Charles Fisher, EPA	
Photo #	4	Of	16		Date:	29 JAN 08	Time:	1210
Description:		Close up of label (which came from leaking drum) on the nearest tote in photo 3. Date of 01-11-08 was written in when the tote was filled.						
								

Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet



Location:	Diaz Intermediates, West Memphis, AR						
Photographer:	Les Branscum, ADEQ			Witness:	Charles Fisher, EPA		
Photo #	5	Of	16	Date:	29 JAN 08	Time:	1211
Description:	View of the over-packs that the leaking drums were placed into. The warehouse backdoor is in the background.						



Photographer:	Les Branscum, ADEQ			Witness:	Charles Fisher, EPA		
Photo #	6	Of	16	Date:	29 JAN 08	Time:	1213
Description:	Rusted metal drums discovered during the over-pack process that were not leaking but were badly rusted. EPA contractors placed them on pallets and plastic and encircled them with granular sorbent.						



Arkansas Department of Environmental Quality (ADEQ)
Official Photograph Sheet

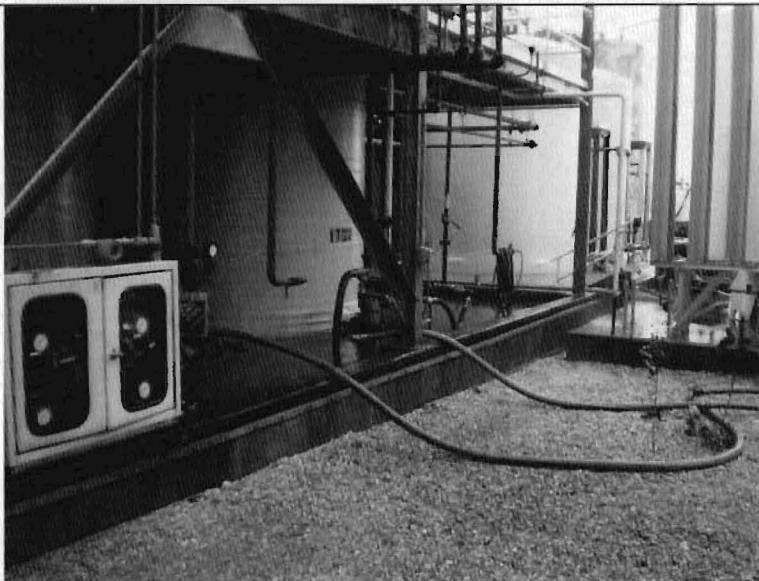
Location:	Diaz Intermediates, West Memphis, AR						
Photographer:	Les Branscum, ADEQ				Witness:	Charles Fisher, EPA	
Photo #	7	Of	16		Date:	29 JAN 08	Time: 1213
Description:	Close up of drums in photo 6 showing rusted condition.						
							
Photographer:	Les Branscum, ADEQ				Witness:	Charles Fisher, EPA	
Photo #	8	Of	16		Date:	29 JAN 08	Time: 1215
Description:	North wall of warehouse showing the rearranging done by EPA. Fork lifts were placed outside.						
							

Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet



Location:	Diaz Intermediates, West Memphis, AR						
Photographer:	Les Branscum, ADEQ			Witness:	Charles Fisher, EPA		
Photo #	9	Of	16		Date:	29 JAN 08	Time: 1215
Description:	Another view of containers on the north side of the warehouse. Poly drums in photo 1 were on top of the poly drums in the foreground.						



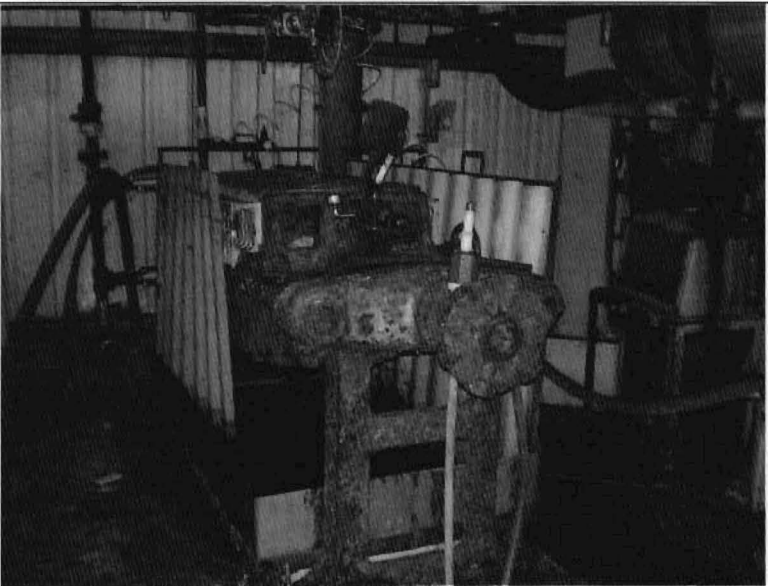
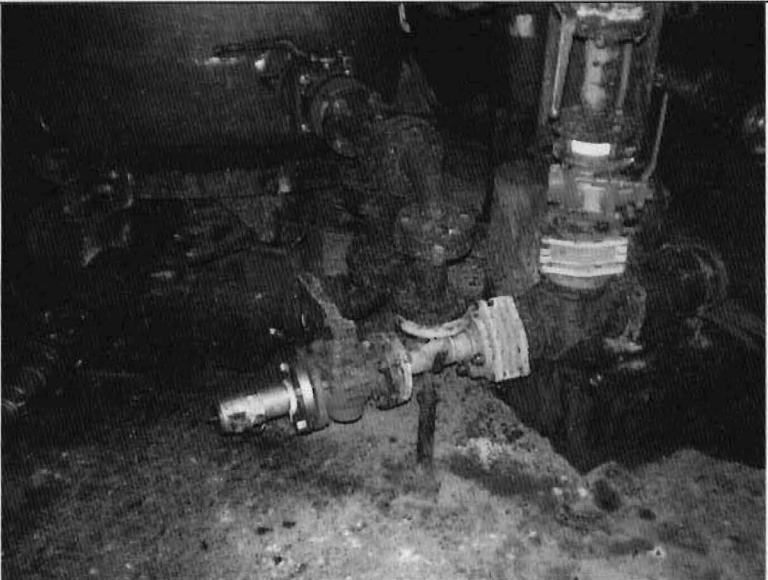
Photographer:	Les Branscum, ADEQ			Witness:	Charles Fisher, EPA		
Photo #	10	Of	16		Date:	29 JAN 08	Time: 1222
Description:	The two tank secondary containment areas viewed through the rain. Mr. Fisher was going to do more Ph testing on the water in the foreground containment but stated the water in the uncovered containment would be released into the sanitary sewer as is.						



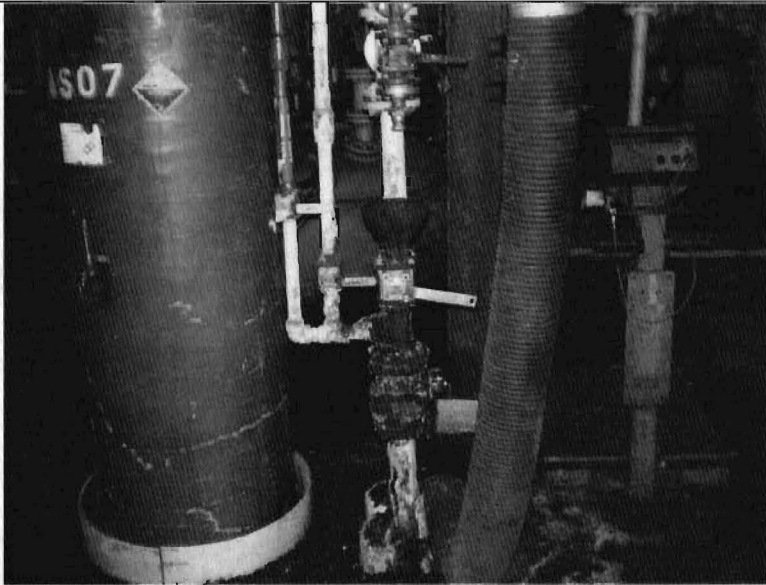

Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet

Location:		Diaz Intermediates, West Memphis, AR						
Photographer:		Les Branscum, ADEQ			Witness:		Charles Fisher, EPA	
Photo #	11	Of	16		Date:	29 JAN 08	Time:	1227
Description:		First floor of Production Building showing drums that were on the floor now on pallets.						
								
Photographer:		Les Branscum, ADEQ			Witness:		Charles Fisher, EPA	
Photo #	12	Of	16		Date:	29 JAN 08	Time:	1230
Description:		Area in back of first floor of the containment building where water had been standing for months. Water was removed and placed in the covered tank containment, (old tank farm).						
								

Arkansas Department of Environmental Quality (ADEQ) Official Photograph Sheet

Location:		Diaz Intermediates, West Memphis, AR						
Photographer:		Les Branscum, ADEQ			Witness:		Charles Fisher, EPA	
Photo #	13	Of	16		Date:	29 JAN 08	Time:	1232
Description:		Some machinery on the first floor, Production Building where water had been standing.						
								
Photographer:		Les Branscum, ADEQ			Witness:		Charles Fisher, EPA	
Photo #	14	Of	16		Date:	29 JAN 08	Time:	1235
Description:		Rusted tank piping system on first floor of Production Building. Even though the water was only an inch or two deep, the damp air accelerated rusting.						
								

**Arkansas Department of Environmental Quality (ADEQ)
Official Photograph Sheet**

Location:	Diaz Intermediates, West Memphis, AR						
Photographer:	Les Branscum, ADEQ				Witness:	Charles Fisher, EPA	
Photo #	15	Of	16		Date:	29 JAN 08	Time: 1237
Description:	One of the caustic piping systems on the second floor of the Production Building showing advanced rusting.						
							
Photographer:	Les Branscum, ADEQ				Witness:	Charles Fisher, EPA	
Photo #	16	Of	16		Date:	29 JAN 08	Time: 1239
Description:	The caustic lines photographed in previous visits showing extreme degradation.						
							

APPENDIX A

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

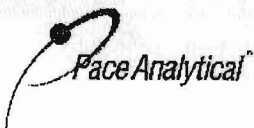
Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: <u>EQM</u>		Report To: <u>Robbin Alley (EQM)</u>		Attention: <u>Robbin Alley</u>	
Address: <u>1800 Carillon Blvd</u>		Copy To: <u>Charles Fisher (EPA)</u>		Company Name: <u>EQM</u>	
<u>Cincinnati, OH 45240</u>		<u>Troy Naguin (START)</u>		Address: <u>1800 Carillon Blvd, Cincinnati, OH 45240</u>	
Email To: <u>ralley2522@aol.com</u>		Purchase Order No.:		Pace Quote Reference:	
Phone: <u>800-580-0575</u> Fax: <u>513-825-7495</u>		Project Name: <u>Diaz Intermediates</u>		Pace Project Manager:	
Requested Due Date/TAT: <u>1 week</u>		Project Number: <u>30268-21</u>		Pace Profile #:	
				REGULATORY AGENCY	
				<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER	
				<input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER <u>EPA</u>	
				Site Location	
				STATE: <u>AR</u>	

ITEM #	Section D Required Client Information		Matrix Codes MATRIX / CODE		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Y/N ↓																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
1 week turnaround time		Troy Naguin / START		11/10/08	1700					4			
Shipped via FedEx Airbill #		FedEx		11-10-08	1100	Mj Miller / Pace		11-10-08	1100	2.5	✓	✓	✓
86422566 2500		Mj Miller		1-11-08	1700	FedEx				2.4			
Preserved at 4°C						Dried here		11/12/08	08:30	3.8	✓	✓	✓

ORIGINAL

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: <u>Troy M. Naguin, Charles Fisher</u>					
SIGNATURE of SAMPLER: <u>Troy M. Naguin, Charles Fisher</u>					
DATE Signed (MM/DD/YY): <u>01/10/08</u>					



Sample Condition Upon Receipt

Client Name: EQM

Project # 6033909

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other frame

Thermometer Used T-168 Type of Ice: yes Blue None ☐ Samples on ice, cooling process has begun.

Cooler Temperature 2.5 3.8°C Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments:

Optional
Proj. Due Date: <u>1/23</u>
Proj. Name: <u>Diaz Intermediate</u>

Date and Initials of person examining contents: <u>1/12/08</u> <u>NAV</u> <u>10:42</u>

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7. <u>1 week</u>
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10. <u>1/12/08</u>
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>1/12/08</u> <u>WT</u>	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: <u>VOA</u> , coliform, TOC, <u>C&G</u> , <u>WI-DRO</u> (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>NAV</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<u>NAV 1/12/08</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	<u>client covered label, non-Pace</u>	

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: mpo 1/13/08

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

January 22, 2008

Robbin Alley
EQM
1800 Carillon Blvd
Cincinnati, OH 45240

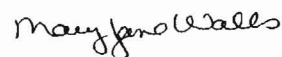
RE: Project: Diaz Intermediate
Pace Project No.: 6033909

Dear Robbin Alley:

Enclosed are the analytical results for sample(s) received by the laboratory on January 12, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mary Jane Walls

maryjane.walls@pacelabs.com
Project Manager

A2LA Certification Number: 2456.01
Arkansas Certification Number: 05-008-0
Illinois Certification Number: 001191
Iowa Certification Number: 118
Kansas/NELAP Certification Number: E-10116
Louisiana Certification Number: 03055
Oklahoma Certification Number: 9205/9935
Utah Certification Number: 9135995665

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Diaz Intermediate
Pace Project No.: 6033909

Lab ID	Sample ID	Matrix	Date Collected	Date Received
6033909001	DIC-SW01	Water	01/10/08 14:05	01/12/08 08:30
6033909002	DIC-SW02	Water	01/10/08 14:11	01/12/08 08:30
6033909003	DIC-SW03	Water	01/10/08 14:25	01/12/08 08:30
6033909004	DIC-SW04	Water	01/10/08 14:32	01/12/08 08:30
6033909005	DIC-SW05	Water	01/10/08 14:53	01/12/08 08:30
6033909006	DIC-SW06	Water	01/10/08 14:59	01/12/08 08:30
6033909007	TRIP BLANK	Water	01/10/08 00:00	01/12/08 08:30

REPORT OF LABORATORY ANALYSIS

Page 2 of 47

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SAMPLE ANALYTE COUNT

Project: Diaz Intermediate
Pace Project No.: 6033909

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
6033909001	DIC-SW01	EPA 1664A	ACM	1	PASI-K
		EPA 5030B/8260	AJA	70	PASI-K
		EPA 6010	TJG	5	PASI-K
		SM 2540D	RAB	1	PASI-K
		SM 4500-CN-E	ACM	1	PASI-K
		SM 4500-H+B	MLM	1	PASI-K
		SM 5210B	MLM	1	PASI-K
6033909002	DIC-SW02	EPA 1664A	ACM	1	PASI-K
		EPA 5030B/8260	AJA	70	PASI-K
		EPA 6010	TJG	5	PASI-K
		SM 2540D	RAB	1	PASI-K
		SM 4500-CN-E	ACM	1	PASI-K
		SM 4500-H+B	MLM	1	PASI-K
		SM 5210B	MLM	1	PASI-K
6033909003	DIC-SW03	EPA 1664A	ACM	1	PASI-K
		EPA 5030B/8260	AJA	70	PASI-K
		EPA 6010	TJG	5	PASI-K
		SM 2540D	RAB	1	PASI-K
		SM 4500-CN-E	ACM	1	PASI-K
		SM 4500-H+B	MLM	1	PASI-K
		SM 5210B	MLM	1	PASI-K
6033909004	DIC-SW04	EPA 1664A	ACM	1	PASI-K
		EPA 5030B/8260	AJA	70	PASI-K
		EPA 6010	TJG	5	PASI-K
		SM 2540D	RAB	1	PASI-K
		SM 4500-CN-E	ACM	1	PASI-K
		SM 4500-H+B	MLM	1	PASI-K
		SM 5210B	MLM	1	PASI-K
6033909005	DIC-SW05	EPA 1664A	ACM	1	PASI-K
		EPA 5030B/8260	AJA	70	PASI-K
		EPA 6010	TJG	5	PASI-K
		SM 2540D	RAB	1	PASI-K
		SM 4500-CN-E	ACM	1	PASI-K
		SM 4500-H+B	MLM	1	PASI-K
		SM 5210B	MLM	1	PASI-K
6033909006	DIC-SW06	EPA 1664A	ACM	1	PASI-K
		EPA 5030B/8260	AJA	70	PASI-K

REPORT OF LABORATORY ANALYSIS

Page 3 of 47

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SAMPLE ANALYTE COUNT

Project: Diaz Intermediate
Pace Project No.: 6033909

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	TJG	5	PASI-K
		SM 2540D	RAB	1	PASI-K
		SM 4500-CN-E	ACM	1	PASI-K
		SM 4500-H+B	MLM	1	PASI-K
		SM 5210B	MLM	1	PASI-K
		EPA 5030B/8260	AJA	70	PASI-K
6033909007	TRIP BLANK				

REPORT OF LABORATORY ANALYSIS

Page 4 of 47

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PROJECT NARRATIVE

Project: Diaz Intermediate
Pace Project No.: 6033909

Method: EPA 6010
Description: 6010 MET ICP
Client: EQM
Date: January 22, 2008

General Information:

6 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/5488

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 6033909001

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 274734)
- Zinc

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

Page 5 of 47

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PROJECT NARRATIVE

Project: Diaz Intermediate
Pace Project No.: 6033909

Method: EPA 5030B/8260
Description: 8260 MSV
Client: EQM
Date: January 22, 2008

General Information:

7 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: MSV/12518

S2: Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

- DIC-SW03 (Lab ID: 6033909003)
 - 1,2-Dichloroethane-d4 (S)
 - 4-Bromofluorobenzene (S)
 - Dibromofluoromethane (S)
 - Toluene-d8 (S)
- DIC-SW05 (Lab ID: 6033909005)
 - 1,2-Dichloroethane-d4 (S)
 - 4-Bromofluorobenzene (S)
 - Dibromofluoromethane (S)
 - Toluene-d8 (S)

QC Batch: MSV/12549

S2: Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

- DIC-SW01 (Lab ID: 6033909001)
 - Toluene-d8 (S)

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

Page 6 of 47

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PROJECT NARRATIVE

Project: Diaz Intermediate
Pace Project No.: 6033909

Method: EPA 5030B/8260
Description: 8260 MSV
Client: EQM
Date: January 22, 2008

QC Batch: MSV/12510

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 274731)
- Bromomethane

QC Batch: MSV/12518

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 275005)
- Chloroethane

QC Batch: MSV/12549

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 276073)
- Bromomethane

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/12510

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/12518

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/12549

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MSV/12510

- C9: Common Laboratory Contaminant.
- TRIP BLANK (Lab ID: 6033909007)
 - Methylene chloride

QC Batch: MSV/12549

1e: Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis). Sample appears to have elevated concentrations of 4-Bromofluorobenzene (laboratory surrogate).

- DIC-SW01 (Lab ID: 6033909001)
- 4-Bromofluorobenzene (S)

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: Diaz Intermediate
Pace Project No.: 6033909

Method: EPA 1664A
Description: HEM, Oil and Grease
Client: EQM
Date: January 22, 2008

General Information:

6 samples were analyzed for EPA 1664A. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Diaz Intermediate
Pace Project No.: 6033909

Method: SM 2540D
Description: 2540D Total Suspended Solids
Client: EQM
Date: January 22, 2008

General Information:

6 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WET/10696

R1: RPD value was outside control limits.

- DUP (Lab ID: 274656)
 - Total Suspended Solids
- DUP (Lab ID: 274657)
 - Total Suspended Solids

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Diaz Intermediate
Pace Project No.: 6033909

Method: SM 4500-H+B
Description: 4500H+ pH, Electrometric
Client: EQM
Date: January 22, 2008

General Information:

6 samples were analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated more than 15 minutes after sample collection.

- DIC-SW01 (Lab ID: 6033909001)
- DIC-SW02 (Lab ID: 6033909002)
- DIC-SW03 (Lab ID: 6033909003)
- DIC-SW04 (Lab ID: 6033909004)
- DIC-SW05 (Lab ID: 6033909005)
- DIC-SW06 (Lab ID: 6033909006)

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Diaz Intermediate
Pace Project No.: 6033909

Method: SM 5210B
Description: 5210B BOD, 5 day
Client: EQM
Date: January 22, 2008

General Information:

6 samples were analyzed for SM 5210B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with SM 5210B with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Diaz Intermediate
Pace Project No.: 6033909

Method: SM 4500-CN-E
Description: 4500CNE Cyanide, Total
Client: EQM
Date: January 22, 2008

General Information:

6 samples were analyzed for SM 4500-CN-E. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Diaz Intermediate
Pace Project No.: 6033909

Sample: DIC-SW01 Lab ID: 6033909001 Collected: 01/10/08 14:05 Received: 01/12/08 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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6010 MET ICP

Analytical Method: EPA 6010 Preparation Method: EPA 3010

Chromium	33.3	ug/L	5.0	1	01/14/08 00:00	01/15/08 13:54	7440-47-3	
Copper	48.9	ug/L	10.0	1	01/14/08 00:00	01/15/08 13:54	7440-50-8	
Lead	15.4	ug/L	5.0	1	01/14/08 00:00	01/15/08 13:54	7439-92-1	
Nickel	399	ug/L	5.0	1	01/14/08 00:00	01/15/08 13:54	7440-02-0	
Zinc	21500	ug/L	50.0	1	01/14/08 00:00	01/15/08 13:54	7440-66-6	

8260 MSV

Analytical Method: EPA 5030B/8260

Acetone	ND	ug/L	10.0	1		01/15/08 04:13	67-64-1	
Benzene	ND	ug/L	1.0	1		01/15/08 04:13	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/15/08 04:13	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/15/08 04:13	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/15/08 04:13	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/15/08 04:13	75-25-2	
Bromomethane	ND	ug/L	1.0	1		01/15/08 04:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/15/08 04:13	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		01/15/08 04:13	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		01/15/08 04:13	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		01/15/08 04:13	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		01/15/08 04:13	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/15/08 04:13	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/15/08 04:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/15/08 04:13	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/15/08 04:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/15/08 04:13	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/15/08 04:13	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/15/08 04:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		01/15/08 04:13	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/15/08 04:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/15/08 04:13	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/15/08 04:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/15/08 04:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/15/08 04:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/15/08 04:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/15/08 04:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/15/08 04:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/15/08 04:13	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		01/15/08 04:13	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/15/08 04:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/15/08 04:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/15/08 04:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/15/08 04:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/15/08 04:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/15/08 04:13	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/15/08 04:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/15/08 04:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/15/08 04:13	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		01/15/08 04:13	100-41-4	

Date: 01/22/2008 03:55 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Diaz Intermediate

Pace Project No.: 6033909

Sample: DIC-SW01 **Lab ID:** 6033909001 **Collected:** 01/10/08 14:05 **Received:** 01/12/08 08:30 **Matrix:** Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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8260 MSV

Analytical Method: EPA 5030B/8260

Hexachloro-1,3-butadiene	ND ug/L		1.0	1		01/15/08 04:13	87-68-3	
2-Hexanone	ND ug/L		10.0	1		01/15/08 04:13	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		01/15/08 04:13	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		01/15/08 04:13	99-87-6	
Methylene chloride	ND ug/L		1.0	1		01/15/08 04:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		01/15/08 04:13	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		01/15/08 04:13	1634-04-4	
Naphthalene	ND ug/L		10.0	1		01/15/08 04:13	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		01/15/08 04:13	103-65-1	
Styrene	ND ug/L		1.0	1		01/15/08 04:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		01/15/08 04:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		01/15/08 04:13	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		01/15/08 04:13	127-18-4	
Toluene	ND ug/L		1.0	1		01/15/08 04:13	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		01/15/08 04:13	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		01/15/08 04:13	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		01/15/08 04:13	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		01/15/08 04:13	79-00-5	
Trichloroethene	ND ug/L		1.0	1		01/15/08 04:13	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		01/15/08 04:13	75-69-4	
1,2,3-Trichloropropane	ND ug/L		2.5	1		01/15/08 04:13	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		01/15/08 04:13	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		01/15/08 04:13	108-67-8	
Vinyl chloride	ND ug/L		1.0	1		01/15/08 04:13	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		01/15/08 04:13	1330-20-7	
4-Bromofluorobenzene (S)	1703 %		78-122	1		01/15/08 04:13	460-00-4	1e
Dibromofluoromethane (S)	84 %		76-128	1		01/15/08 04:13	1868-53-7	
1,2-Dichloroethane-d4 (S)	85 %		82-134	1		01/15/08 04:13	17060-07-0	
Toluene-d8 (S)	82 %		83-109	1		01/15/08 04:13	2037-26-5	S2
Preservation pH	1.0		0.10	1		01/15/08 04:13		

HEM, Oil and Grease

Analytical Method: EPA 1664A

Oil and Grease	ND mg/L		5.0	1		01/15/08 09:20		
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2540D Total Suspended Solids

Analytical Method: SM 2540D

Total Suspended Solids	ND mg/L		5.0	1		01/14/08 14:20		
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4500H+ pH, Electrometric

Analytical Method: SM 4500-H+B

pH at 25 Degrees C	4.2 Std. Units		0.10	1		01/12/08 14:45		H6
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5210B BOD, 5 day

Analytical Method: SM 5210B Preparation Method: SM 5210B

BOD, 5 day	ND mg/L		2.0	1	01/12/08 14:00	01/17/08 16:05		
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4500CNE Cyanide, Total

Analytical Method: SM 4500-CN-E

Cyanide	0.0080 mg/L		0.0050	1		01/16/08 13:46	57-12-5	
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ANALYTICAL RESULTS

Project: Diaz Intermediate
Pace Project No.: 6033909

Sample: **DIC-SW02** Lab ID: **6033909002** Collected: 01/10/08 14:11 Received: 01/12/08 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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6010 MET ICP

Analytical Method: EPA 6010 Preparation Method: EPA 3010

Chromium	ND ug/L		5.0	1	01/14/08 00:00	01/15/08 14:06	7440-47-3	
Copper	ND ug/L		10.0	1	01/14/08 00:00	01/15/08 14:06	7440-50-8	
Lead	ND ug/L		5.0	1	01/14/08 00:00	01/15/08 14:06	7439-92-1	
Nickel	17.8 ug/L		5.0	1	01/14/08 00:00	01/15/08 14:06	7440-02-0	
Zinc	1250 ug/L		50.0	1	01/14/08 00:00	01/15/08 14:06	7440-66-6	

8260 MSV

Analytical Method: EPA 5030B/8260

Acetone	ND ug/L		10.0	1		01/15/08 04:30	67-64-1	
Benzene	ND ug/L		1.0	1		01/15/08 04:30	71-43-2	
Bromobenzene	ND ug/L		1.0	1		01/15/08 04:30	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		01/15/08 04:30	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		01/15/08 04:30	75-27-4	
Bromoform	ND ug/L		1.0	1		01/15/08 04:30	75-25-2	
Bromomethane	ND ug/L		1.0	1		01/15/08 04:30	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		01/15/08 04:30	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		01/15/08 04:30	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		01/15/08 04:30	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		01/15/08 04:30	98-06-6	
Carbon disulfide	ND ug/L		5.0	1		01/15/08 04:30	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		01/15/08 04:30	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		01/15/08 04:30	108-90-7	
Chloroethane	ND ug/L		1.0	1		01/15/08 04:30	75-00-3	
Chloroform	ND ug/L		1.0	1		01/15/08 04:30	67-66-3	
Chloromethane	ND ug/L		1.0	1		01/15/08 04:30	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		01/15/08 04:30	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		01/15/08 04:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		2.5	1		01/15/08 04:30	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		01/15/08 04:30	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		01/15/08 04:30	106-93-4	
Dibromomethane	ND ug/L		1.0	1		01/15/08 04:30	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		01/15/08 04:30	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		01/15/08 04:30	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		01/15/08 04:30	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		01/15/08 04:30	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		01/15/08 04:30	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		01/15/08 04:30	107-06-2	
1,2-Dichloroethene (Total)	ND ug/L		1.0	1		01/15/08 04:30	540-59-0	
1,1-Dichloroethene	ND ug/L		1.0	1		01/15/08 04:30	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		01/15/08 04:30	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		01/15/08 04:30	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		01/15/08 04:30	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		01/15/08 04:30	142-28-9	
2,2-Dichloropropane	ND ug/L		1.0	1		01/15/08 04:30	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		01/15/08 04:30	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		01/15/08 04:30	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		01/15/08 04:30	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		01/15/08 04:30	100-41-4	

Date: 01/22/2008 03:55 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Diaz Intermediate
Pace Project No.: 6033909

Sample: DIC-SW02		Lab ID: 6033909002	Collected: 01/10/08 14:11		Received: 01/12/08 08:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/15/08 04:30	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		01/15/08 04:30	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/15/08 04:30	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/15/08 04:30	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		01/15/08 04:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/15/08 04:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/15/08 04:30	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		01/15/08 04:30	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		01/15/08 04:30	103-65-1	
Styrene	ND	ug/L	1.0	1		01/15/08 04:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/15/08 04:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/15/08 04:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/15/08 04:30	127-18-4	
Toluene	ND	ug/L	1.0	1		01/15/08 04:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/15/08 04:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/15/08 04:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/15/08 04:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/15/08 04:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/15/08 04:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/15/08 04:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		01/15/08 04:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/15/08 04:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/15/08 04:30	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/15/08 04:30	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/15/08 04:30	1330-20-7	
4-Bromofluorobenzene (S)	109 %		78-122	1		01/15/08 04:30	460-00-4	
Dibromofluoromethane (S)	93 %		76-128	1		01/15/08 04:30	1868-53-7	
1,2-Dichloroethane-d4 (S)	89 %		82-134	1		01/15/08 04:30	17060-07-0	
Toluene-d8 (S)	91 %		83-109	1		01/15/08 04:30	2037-26-5	
Preservation pH	1.0		0.10	1		01/15/08 04:30		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	ND	mg/L	5.0	1		01/15/08 09:20		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	ND	mg/L	5.0	1		01/14/08 14:21		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	7.6	Std. Units	0.10	1		01/12/08 14:45		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	ND	mg/L	2.0	1	01/12/08 14:05	01/17/08 16:09		
4500CNE Cyanide, Total		Analytical Method: SM 4500-CN-E						
Cyanide	0.0096	mg/L	0.0050	1		01/16/08 13:49	57-12-5	

ANALYTICAL RESULTS

Project: Diaz Intermediate
Pace Project No.: 6033909

Sample: DIC-SW03		Lab ID: 6033909003	Collected: 01/10/08 14:25		Received: 01/12/08 08:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	ND	ug/L	5.0	1	01/14/08 00:00	01/15/08 14:10	7440-47-3	
Copper	ND	ug/L	10.0	1	01/14/08 00:00	01/15/08 14:10	7440-50-8	
Lead	ND	ug/L	5.0	1	01/14/08 00:00	01/15/08 14:10	7439-92-1	
Nickel	ND	ug/L	5.0	1	01/14/08 00:00	01/15/08 14:10	7440-02-0	
Zinc	ND	ug/L	50.0	1	01/14/08 00:00	01/15/08 14:10	7440-66-6	
8260 MSV Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1		01/15/08 15:14	67-64-1	
Benzene	1.0	ug/L	1.0	1		01/15/08 15:14	71-43-2	
Bromobenzene	23.8	ug/L	1.0	1		01/15/08 15:14	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/15/08 15:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/15/08 15:14	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/15/08 15:14	75-25-2	
Bromomethane	ND	ug/L	1.0	1		01/15/08 15:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/15/08 15:14	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		01/15/08 15:14	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		01/15/08 15:14	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		01/15/08 15:14	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		01/15/08 15:14	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/15/08 15:14	56-23-5	
Chlorobenzene	3.7	ug/L	1.0	1		01/15/08 15:14	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/15/08 15:14	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/15/08 15:14	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/15/08 15:14	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/15/08 15:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/15/08 15:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		01/15/08 15:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/15/08 15:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/15/08 15:14	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/15/08 15:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/15/08 15:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/15/08 15:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/15/08 15:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/15/08 15:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/15/08 15:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/15/08 15:14	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		01/15/08 15:14	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/15/08 15:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/15/08 15:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/15/08 15:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/15/08 15:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/15/08 15:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/15/08 15:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/15/08 15:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/15/08 15:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/15/08 15:14	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		01/15/08 15:14	100-41-4	

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ANALYTICAL RESULTS

Project: Diaz Intermediate

Pace Project No.: 6033909

Sample: DIC-SW03		Lab ID: 6033909003	Collected: 01/10/08 14:25		Received: 01/12/08 08:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/15/08 15:14	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		01/15/08 15:14	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/15/08 15:14	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/15/08 15:14	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		01/15/08 15:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/15/08 15:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/15/08 15:14	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		01/15/08 15:14	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		01/15/08 15:14	103-65-1	
Styrene	ND	ug/L	1.0	1		01/15/08 15:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/15/08 15:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/15/08 15:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/15/08 15:14	127-18-4	
Toluene	21.5	ug/L	1.0	1		01/15/08 15:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/15/08 15:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/15/08 15:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/15/08 15:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/15/08 15:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/15/08 15:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/15/08 15:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		01/15/08 15:14	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/15/08 15:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/15/08 15:14	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/15/08 15:14	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/15/08 15:14	1330-20-7	
4-Bromofluorobenzene (S)	143 %		78-122	1		01/15/08 15:14	460-00-4	S2
Dibromofluoromethane (S)	43 %		76-128	1		01/15/08 15:14	1868-53-7	S2
1,2-Dichloroethane-d4 (S)	42 %		82-134	1		01/15/08 15:14	17060-07-0	S2
Toluene-d8 (S)	42 %		83-109	1		01/15/08 15:14	2037-26-5	S2
Preservation pH	1.0		0.10	1		01/15/08 15:14		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	ND	mg/L	5.0	1		01/15/08 09:20		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	ND	mg/L	5.0	1		01/14/08 14:21		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	7.7	Std. Units	0.10	1		01/12/08 14:45		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	2.2	mg/L	2.0	1	01/12/08 14:16	01/17/08 16:11		
4500CNE Cyanide, Total		Analytical Method: SM 4500-CN-E						
Cyanide	ND	mg/L	0.0050	1		01/16/08 13:49	57-12-5	

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ANALYTICAL RESULTS

Project: Diaz Intermediate
Pace Project No.: 6033909

Sample: DIC-SW04 Lab ID: 6033909004 Collected: 01/10/08 14:32 Received: 01/12/08 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	ND	ug/L	5.0	1	01/14/08 00:00	01/15/08 14:14	7440-47-3	
Copper	ND	ug/L	10.0	1	01/14/08 00:00	01/15/08 14:14	7440-50-8	
Lead	ND	ug/L	5.0	1	01/14/08 00:00	01/15/08 14:14	7439-92-1	
Nickel	ND	ug/L	5.0	1	01/14/08 00:00	01/15/08 14:14	7440-02-0	
Zinc	94.7	ug/L	50.0	1	01/14/08 00:00	01/15/08 14:14	7440-66-6	

8260 MSV Analytical Method: EPA 5030B/8260

Acetone	ND	ug/L	10.0	1		01/15/08 05:03	67-64-1	
Benzene	ND	ug/L	1.0	1		01/15/08 05:03	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/15/08 05:03	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/15/08 05:03	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/15/08 05:03	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/15/08 05:03	75-25-2	
Bromomethane	ND	ug/L	1.0	1		01/15/08 05:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/15/08 05:03	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		01/15/08 05:03	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		01/15/08 05:03	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		01/15/08 05:03	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		01/15/08 05:03	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/15/08 05:03	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/15/08 05:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/15/08 05:03	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/15/08 05:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/15/08 05:03	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/15/08 05:03	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/15/08 05:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		01/15/08 05:03	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/15/08 05:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/15/08 05:03	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/15/08 05:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/15/08 05:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/15/08 05:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/15/08 05:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/15/08 05:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/15/08 05:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/15/08 05:03	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		01/15/08 05:03	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/15/08 05:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/15/08 05:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/15/08 05:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/15/08 05:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/15/08 05:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/15/08 05:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/15/08 05:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/15/08 05:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/15/08 05:03	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		01/15/08 05:03	100-41-4	

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ANALYTICAL RESULTS

Project: Diaz Intermediate
Pace Project No.: 6033909

Sample: DIC-SW04		Lab ID: 6033909004	Collected: 01/10/08 14:32	Received: 01/12/08 08:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Hexachloro-1,3-butadiene	ND ug/L		1.0	1		01/15/08 05:03	87-68-3	
2-Hexanone	ND ug/L		10.0	1		01/15/08 05:03	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		01/15/08 05:03	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		01/15/08 05:03	99-87-6	
Methylene chloride	ND ug/L		1.0	1		01/15/08 05:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		01/15/08 05:03	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		01/15/08 05:03	1634-04-4	
Naphthalene	ND ug/L		10.0	1		01/15/08 05:03	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		01/15/08 05:03	103-65-1	
Styrene	ND ug/L		1.0	1		01/15/08 05:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		01/15/08 05:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		01/15/08 05:03	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		01/15/08 05:03	127-18-4	
Toluene	ND ug/L		1.0	1		01/15/08 05:03	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		01/15/08 05:03	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		01/15/08 05:03	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		01/15/08 05:03	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		01/15/08 05:03	79-00-5	
Trichloroethene	ND ug/L		1.0	1		01/15/08 05:03	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		01/15/08 05:03	75-69-4	
1,2,3-Trichloropropane	ND ug/L		2.5	1		01/15/08 05:03	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		01/15/08 05:03	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		01/15/08 05:03	108-67-8	
Vinyl chloride	ND ug/L		1.0	1		01/15/08 05:03	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		01/15/08 05:03	1330-20-7	
4-Bromofluorobenzene (S)	110 %		78-122	1		01/15/08 05:03	460-00-4	
Dibromofluoromethane (S)	96 %		76-128	1		01/15/08 05:03	1868-53-7	
1,2-Dichloroethane-d4 (S)	95 %		82-134	1		01/15/08 05:03	17060-07-0	
Toluene-d8 (S)	87 %		83-109	1		01/15/08 05:03	2037-26-5	
Preservation pH	1.0		0.10	1		01/15/08 05:03		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	ND mg/L		5.0	1		01/15/08 09:21		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	10.0 mg/L		5.0	1		01/14/08 14:21		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	7.8 Std. Units		0.10	1		01/12/08 14:45		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	ND mg/L		2.0	1	01/12/08 14:24	01/17/08 16:15		
4500CNE Cyanide, Total		Analytical Method: SM 4500-CN-E						
Cyanide	ND mg/L		0.0050	1		01/16/08 13:50	57-12-5	

ANALYTICAL RESULTS

Project: Diaz Intermediate
Pace Project No.: 6033909

Sample: DIC-SW05 Lab ID: 6033909005 Collected: 01/10/08 14:53 Received: 01/12/08 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Chromium	5.5 ug/L		5.0	1	01/14/08 00:00	01/15/08 14:18	7440-47-3	
Copper	ND ug/L		10.0	1	01/14/08 00:00	01/15/08 14:18	7440-50-8	
Lead	ND ug/L		5.0	1	01/14/08 00:00	01/15/08 14:18	7439-92-1	
Nickel	30.1 ug/L		5.0	1	01/14/08 00:00	01/15/08 14:18	7440-02-0	
Zinc	331 ug/L		50.0	1	01/14/08 00:00	01/15/08 14:18	7440-66-6	

8260 MSV Analytical Method: EPA 5030B/8260

Acetone	ND ug/L		10.0	1		01/15/08 15:31	67-64-1	
Benzene	ND ug/L		1.0	1		01/15/08 15:31	71-43-2	
Bromobenzene	33.6 ug/L		1.0	1		01/15/08 15:31	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		01/15/08 15:31	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		01/15/08 15:31	75-27-4	
Bromoform	ND ug/L		1.0	1		01/15/08 15:31	75-25-2	
Bromomethane	ND ug/L		1.0	1		01/15/08 15:31	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		01/15/08 15:31	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		01/15/08 15:31	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		01/15/08 15:31	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		01/15/08 15:31	98-06-6	
Carbon disulfide	ND ug/L		5.0	1		01/15/08 15:31	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		01/15/08 15:31	56-23-5	
Chlorobenzene	8.4 ug/L		1.0	1		01/15/08 15:31	108-90-7	
Chloroethane	ND ug/L		1.0	1		01/15/08 15:31	75-00-3	
Chloroform	ND ug/L		1.0	1		01/15/08 15:31	67-66-3	
Chloromethane	4.0 ug/L		1.0	1		01/15/08 15:31	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		01/15/08 15:31	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		01/15/08 15:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		2.5	1		01/15/08 15:31	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		01/15/08 15:31	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		01/15/08 15:31	106-93-4	
Dibromomethane	ND ug/L		1.0	1		01/15/08 15:31	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		01/15/08 15:31	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		01/15/08 15:31	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		01/15/08 15:31	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		01/15/08 15:31	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		01/15/08 15:31	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		01/15/08 15:31	107-06-2	
1,2-Dichloroethene (Total)	ND ug/L		1.0	1		01/15/08 15:31	540-59-0	
1,1-Dichloroethene	ND ug/L		1.0	1		01/15/08 15:31	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		01/15/08 15:31	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		01/15/08 15:31	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		01/15/08 15:31	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		01/15/08 15:31	142-28-9	
2,2-Dichloropropane	ND ug/L		1.0	1		01/15/08 15:31	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		01/15/08 15:31	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		01/15/08 15:31	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		01/15/08 15:31	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		01/15/08 15:31	100-41-4	

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ANALYTICAL RESULTS

Project: Diaz Intermediate
Pace Project No.: 6033909

Sample: DIC-SW05		Lab ID: 6033909005	Collected: 01/10/08 14:53	Received: 01/12/08 08:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/15/08 15:31	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		01/15/08 15:31	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/15/08 15:31	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/15/08 15:31	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		01/15/08 15:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/15/08 15:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/15/08 15:31	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		01/15/08 15:31	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		01/15/08 15:31	103-65-1	
Styrene	ND	ug/L	1.0	1		01/15/08 15:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/15/08 15:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/15/08 15:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/15/08 15:31	127-18-4	
Toluene	95.0	ug/L	1.0	1		01/15/08 15:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/15/08 15:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/15/08 15:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/15/08 15:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/15/08 15:31	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/15/08 15:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/15/08 15:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		01/15/08 15:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/15/08 15:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/15/08 15:31	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/15/08 15:31	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/15/08 15:31	1330-20-7	
4-Bromofluorobenzene (S)	386 %		78-122	1		01/15/08 15:31	460-00-4	S2
Dibromofluoromethane (S)	46 %		76-128	1		01/15/08 15:31	1868-53-7	S2
1,2-Dichloroethane-d4 (S)	45 %		82-134	1		01/15/08 15:31	17060-07-0	S2
Toluene-d8 (S)	42 %		83-109	1		01/15/08 15:31	2037-26-5	S2
Preservation pH	1.0		0.10	1		01/15/08 15:31		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	ND	mg/L	5.0	1		01/15/08 09:21		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	ND	mg/L	5.0	1		01/16/08 15:34		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	7.7	Std. Units	0.10	1		01/12/08 14:45		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	2.0	mg/L	2.0	1	01/12/08 14:27	01/17/08 16:19		
4500CNE Cyanide, Total		Analytical Method: SM 4500-CN-E						
Cyanide	0.0066	mg/L	0.0050	1		01/16/08 13:53	57-12-5	

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ANALYTICAL RESULTS

Project: Diaz Intermediate

Pace Project No.: 6033909

Sample: DIC-SW06 Lab ID: 6033909006 Collected: 01/10/08 14:59 Received: 01/12/08 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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6010 MET ICP

Analytical Method: EPA 6010 Preparation Method: EPA 3010

Chromium	ND ug/L		5.0	1	01/14/08 00:00	01/15/08 14:22	7440-47-3	
Copper	ND ug/L		10.0	1	01/14/08 00:00	01/15/08 14:22	7440-50-8	
Lead	ND ug/L		5.0	1	01/14/08 00:00	01/15/08 14:22	7439-92-1	
Nickel	ND ug/L		5.0	1	01/14/08 00:00	01/15/08 14:22	7440-02-0	
Zinc	ND ug/L		50.0	1	01/14/08 00:00	01/15/08 14:22	7440-66-6	

8260 MSV

Analytical Method: EPA 5030B/8260

Acetone	ND ug/L		10.0	1		01/15/08 05:36	67-64-1	
Benzene	ND ug/L		1.0	1		01/15/08 05:36	71-43-2	
Bromobenzene	ND ug/L		1.0	1		01/15/08 05:36	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		01/15/08 05:36	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		01/15/08 05:36	75-27-4	
Bromoform	ND ug/L		1.0	1		01/15/08 05:36	75-25-2	
Bromomethane	ND ug/L		1.0	1		01/15/08 05:36	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		01/15/08 05:36	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		01/15/08 05:36	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		01/15/08 05:36	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		01/15/08 05:36	98-06-6	
Carbon disulfide	ND ug/L		5.0	1		01/15/08 05:36	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		01/15/08 05:36	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		01/15/08 05:36	108-90-7	
Chloroethane	ND ug/L		1.0	1		01/15/08 05:36	75-00-3	
Chloroform	ND ug/L		1.0	1		01/15/08 05:36	67-66-3	
Chloromethane	ND ug/L		1.0	1		01/15/08 05:36	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		01/15/08 05:36	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		01/15/08 05:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		2.5	1		01/15/08 05:36	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		01/15/08 05:36	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		01/15/08 05:36	106-93-4	
Dibromomethane	ND ug/L		1.0	1		01/15/08 05:36	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		01/15/08 05:36	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		01/15/08 05:36	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		01/15/08 05:36	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		01/15/08 05:36	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		01/15/08 05:36	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		01/15/08 05:36	107-06-2	
1,2-Dichloroethene (Total)	ND ug/L		1.0	1		01/15/08 05:36	540-59-0	
1,1-Dichloroethene	ND ug/L		1.0	1		01/15/08 05:36	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		01/15/08 05:36	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		01/15/08 05:36	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		01/15/08 05:36	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		01/15/08 05:36	142-28-9	
2,2-Dichloropropane	ND ug/L		1.0	1		01/15/08 05:36	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		01/15/08 05:36	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		01/15/08 05:36	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		01/15/08 05:36	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		01/15/08 05:36	100-41-4	

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ANALYTICAL RESULTS

Project: Diaz Intermediate
Pace Project No.: 6033909

Sample: DIC-SW06 Lab ID: 6033909006 Collected: 01/10/08 14:59 Received: 01/12/08 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 5030B/8260								
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/15/08 05:36	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		01/15/08 05:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/15/08 05:36	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/15/08 05:36	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		01/15/08 05:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/15/08 05:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/15/08 05:36	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		01/15/08 05:36	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		01/15/08 05:36	103-65-1	
Styrene	ND	ug/L	1.0	1		01/15/08 05:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/15/08 05:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/15/08 05:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/15/08 05:36	127-18-4	
Toluene	ND	ug/L	1.0	1		01/15/08 05:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/15/08 05:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/15/08 05:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/15/08 05:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/15/08 05:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/15/08 05:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/15/08 05:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		01/15/08 05:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/15/08 05:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/15/08 05:36	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/15/08 05:36	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/15/08 05:36	1330-20-7	
4-Bromofluorobenzene (S)	111 %		78-122	1		01/15/08 05:36	460-00-4	
Dibromofluoromethane (S)	96 %		76-128	1		01/15/08 05:36	1868-53-7	
1,2-Dichloroethane-d4 (S)	94 %		82-134	1		01/15/08 05:36	17060-07-0	
Toluene-d8 (S)	94 %		83-109	1		01/15/08 05:36	2037-26-5	
Preservation pH	1.0		0.10	1		01/15/08 05:36		
HEM, Oil and Grease Analytical Method: EPA 1664A								
Oil and Grease	ND	mg/L	5.0	1		01/15/08 09:21		
2540D Total Suspended Solids Analytical Method: SM 2540D								
Total Suspended Solids	10	mg/L	5.0	1		01/16/08 15:35		
4500H+ pH, Electrometric Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	7.6	Std. Units	0.10	1		01/12/08 14:45		H6
5210B BOD, 5 day Analytical Method: SM 5210B Preparation Method: SM 5210B								
BOD, 5 day	2.2	mg/L	2.0	1	01/12/08 14:32	01/17/08 16:23		
4500CNE Cyanide, Total Analytical Method: SM 4500-CN-E								
Cyanide	ND	mg/L	0.0050	1		01/16/08 13:53	57-12-5	

ANALYTICAL RESULTS

Project: Diaz Intermediate
Pace Project No.: 6033909

Sample: TRIP BLANK Lab ID: 6033909007 Collected: 01/10/08 00:00 Received: 01/12/08 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1		01/15/08 05:53	67-64-1	
Benzene	ND	ug/L	1.0	1		01/15/08 05:53	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/15/08 05:53	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/15/08 05:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/15/08 05:53	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/15/08 05:53	75-25-2	
Bromomethane	ND	ug/L	1.0	1		01/15/08 05:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/15/08 05:53	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		01/15/08 05:53	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		01/15/08 05:53	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		01/15/08 05:53	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		01/15/08 05:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/15/08 05:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/15/08 05:53	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/15/08 05:53	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/15/08 05:53	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/15/08 05:53	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/15/08 05:53	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/15/08 05:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		01/15/08 05:53	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/15/08 05:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/15/08 05:53	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/15/08 05:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/15/08 05:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/15/08 05:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/15/08 05:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/15/08 05:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/15/08 05:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/15/08 05:53	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		01/15/08 05:53	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/15/08 05:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/15/08 05:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/15/08 05:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/15/08 05:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/15/08 05:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/15/08 05:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/15/08 05:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/15/08 05:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/15/08 05:53	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		01/15/08 05:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/15/08 05:53	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		01/15/08 05:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/15/08 05:53	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/15/08 05:53	99-87-6	
Methylene chloride	5.5	ug/L	1.0	1		01/15/08 05:53	75-09-2	C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/15/08 05:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/15/08 05:53	1634-04-4	

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ANALYTICAL RESULTS

Project: Diaz Intermediate
Pace Project No.: 6033909

Sample: TRIP BLANK		Lab ID: 6033909007	Collected: 01/10/08 00:00	Received: 01/12/08 08:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Naphthalene	ND ug/L		10.0	1		01/15/08 05:53	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		01/15/08 05:53	103-65-1	
Styrene	ND ug/L		1.0	1		01/15/08 05:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		01/15/08 05:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		01/15/08 05:53	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		01/15/08 05:53	127-18-4	
Toluene	ND ug/L		1.0	1		01/15/08 05:53	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		01/15/08 05:53	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		01/15/08 05:53	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		01/15/08 05:53	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		01/15/08 05:53	79-00-5	
Trichloroethene	ND ug/L		1.0	1		01/15/08 05:53	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		01/15/08 05:53	75-69-4	
1,2,3-Trichloropropane	ND ug/L		2.5	1		01/15/08 05:53	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		01/15/08 05:53	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		01/15/08 05:53	108-67-8	
Vinyl chloride	ND ug/L		1.0	1		01/15/08 05:53	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		01/15/08 05:53	1330-20-7	
4-Bromofluorobenzene (S)	106 %		78-122	1		01/15/08 05:53	460-00-4	
Dibromofluoromethane (S)	100 %		76-128	1		01/15/08 05:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	102 %		82-134	1		01/15/08 05:53	17060-07-0	
Toluene-d8 (S)	95 %		83-109	1		01/15/08 05:53	2037-26-5	
Preservation pH	1.0		0.10	1		01/15/08 05:53		

QUALITY CONTROL DATA

Project: Diaz Intermediate

Pace Project No.: 6033909

QC Batch: WET/10681

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Associated Lab Samples: 6033909001, 6033909002, 6033909003, 6033909004, 6033909005, 6033909006

SAMPLE DUPLICATE: 274125

Parameter	Units	6033900002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	1	5	H6

QUALITY CONTROL DATA

Project: Diaz Intermediate

Pace Project No.: 6033909

QC Batch: WET/10684

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 6033909001, 6033909002, 6033909003, 6033909004, 6033909005, 6033909006

METHOD BLANK: 274135

Associated Lab Samples: 6033909001, 6033909002, 6033909003, 6033909004, 6033909005, 6033909006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
BOD, 5 day	mg/L	ND	2.0	

LABORATORY CONTROL SAMPLE: 274136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	171	86	85-115	

SAMPLE DUPLICATE: 274137

Parameter	Units	6033908001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	2690	2290	16	17	

QUALITY CONTROL DATA

Project: Diaz Intermediate
Pace Project No.: 6033909

QC Batch: WET/10696 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 6033909001, 6033909002, 6033909003, 6033909004

METHOD BLANK: 274655

Associated Lab Samples: 6033909001, 6033909002, 6033909003, 6033909004

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	

SAMPLE DUPLICATE: 274656

Parameter	Units	6033840002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	107	100	6	5	R1

SAMPLE DUPLICATE: 274657

Parameter	Units	6033849003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	42.0	47.0	11	5	R1

QUALITY CONTROL DATA

Project: Diaz Intermediate

Pace Project No.: 6033909

QC Batch: MSV/12510

Analysis Method: EPA 5030B/8260

QC Batch Method: EPA 5030B/8260

Analysis Description: 8260 MSV Water 10 mL Purge

Associated Lab Samples: 6033909002, 6033909004, 6033909006, 6033909007

METHOD BLANK: 274730

Associated Lab Samples: 6033909002, 6033909004, 6033909006, 6033909007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,1-Trichloroethane	ug/L	ND	1.0	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,2-Trichloroethane	ug/L	ND	1.0	
1,1-Dichloroethane	ug/L	ND	1.0	
1,1-Dichloroethene	ug/L	ND	1.0	
1,1-Dichloropropene	ug/L	ND	1.0	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	
1,2,3-Trichloropropane	ug/L	ND	2.5	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	
1,2-Dichlorobenzene	ug/L	ND	1.0	
1,2-Dichloroethane	ug/L	ND	1.0	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	
1,2-Dichloropropane	ug/L	ND	1.0	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	
1,3-Dichlorobenzene	ug/L	ND	1.0	
1,3-Dichloropropane	ug/L	ND	1.0	
1,4-Dichlorobenzene	ug/L	ND	1.0	
2,2-Dichloropropane	ug/L	ND	1.0	
2-Butanone (MEK)	ug/L	ND	10.0	
2-Chlorotoluene	ug/L	ND	1.0	
2-Hexanone	ug/L	ND	10.0	
4-Chlorotoluene	ug/L	ND	1.0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	
Acetone	ug/L	ND	10.0	
Benzene	ug/L	ND	1.0	
Bromobenzene	ug/L	ND	1.0	
Bromochloromethane	ug/L	ND	1.0	
Bromodichloromethane	ug/L	ND	1.0	
Bromoform	ug/L	ND	1.0	
Bromomethane	ug/L	ND	1.0	
Carbon disulfide	ug/L	ND	5.0	
Carbon tetrachloride	ug/L	ND	1.0	
Chlorobenzene	ug/L	ND	1.0	
Chloroethane	ug/L	ND	1.0	
Chloroform	ug/L	ND	1.0	
Chloromethane	ug/L	ND	1.0	
cis-1,2-Dichloroethene	ug/L	ND	1.0	
cis-1,3-Dichloropropene	ug/L	ND	1.0	
Dibromochloromethane	ug/L	ND	1.0	

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QUALITY CONTROL DATA

Project: Diaz Intermediate

Pace Project No.: 6033909

METHOD BLANK: 274730

Associated Lab Samples: 6033909002, 6033909004, 6033909006, 6033909007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dibromomethane	ug/L	ND	1.0	
Dichlorodifluoromethane	ug/L	ND	1.0	
Ethylbenzene	ug/L	ND	1.0	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	
Methyl-tert-butyl ether	ug/L	ND	1.0	
Methylene chloride	ug/L	ND	1.0	
n-Butylbenzene	ug/L	ND	1.0	
n-Propylbenzene	ug/L	ND	1.0	
Naphthalene	ug/L	ND	10.0	
p-Isopropyltoluene	ug/L	ND	1.0	
sec-Butylbenzene	ug/L	ND	1.0	
Styrene	ug/L	ND	1.0	
tert-Butylbenzene	ug/L	ND	1.0	
Tetrachloroethene	ug/L	ND	1.0	
Toluene	ug/L	ND	1.0	
trans-1,2-Dichloroethene	ug/L	ND	1.0	
trans-1,3-Dichloropropene	ug/L	ND	1.0	
Trichloroethene	ug/L	ND	1.0	
Trichlorofluoromethane	ug/L	ND	1.0	
Vinyl chloride	ug/L	ND	1.0	
Xylene (Total)	ug/L	ND	3.0	
1,2-Dichloroethane-d4 (S)	%	97	82-134	
4-Bromofluorobenzene (S)	%	107	78-122	
Dibromofluoromethane (S)	%	96	76-128	
Toluene-d8 (S)	%	98	83-109	

LABORATORY CONTROL SAMPLE: 274731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	9.9	99	86-118	
1,1,1-Trichloroethane	ug/L	10	9.8	98	83-127	
1,1,2,2-Tetrachloroethane	ug/L	10	10	100	64-133	
1,1,2-Trichloroethane	ug/L	10	10.9	109	76-132	
1,1-Dichloroethane	ug/L	10	10.6	106	86-126	
1,1-Dichloroethene	ug/L	10	10.1	101	80-145	
1,1-Dichloropropene	ug/L	10	10.2	102	85-128	
1,2,3-Trichlorobenzene	ug/L	10	10.2	102	60-144	
1,2,3-Trichloropropane	ug/L	10	10.8	108	54-124	
1,2,4-Trichlorobenzene	ug/L	10	10.3	103	74-130	
1,2,4-Trimethylbenzene	ug/L	10	10	100	80-130	
1,2-Dibromo-3-chloropropane	ug/L	10	9.7	97	53-143	
1,2-Dibromoethane (EDB)	ug/L	10	10.1	101	77-121	
1,2-Dichlorobenzene	ug/L	10	10.3	103	80-125	
1,2-Dichloroethane	ug/L	10	10.4	104	80-130	

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QUALITY CONTROL DATA

Project: Diaz Intermediate

Pace Project No.: 6033909

LABORATORY CONTROL SAMPLE: 274731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	20	20.6	103	89-126	
1,2-Dichloropropane	ug/L	10	9.8	98	78-126	
1,3,5-Trimethylbenzene	ug/L	10	9.8	98	83-126	
1,3-Dichlorobenzene	ug/L	10	10.1	101	80-123	
1,3-Dichloropropane	ug/L	10	10.5	105	83-125	
1,4-Dichlorobenzene	ug/L	10	10.1	101	81-121	
2,2-Dichloropropane	ug/L	10	8.5	85	49-154	
2-Butanone (MEK)	ug/L	20	22.1	111	32-150	
2-Chlorotoluene	ug/L	10	9.9	99	86-123	
2-Hexanone	ug/L	20	21.0	105	35-150	
4-Chlorotoluene	ug/L	10	9.6	96	82-124	
4-Methyl-2-pentanone (MIBK)	ug/L	20	17.4	87	54-140	
Acetone	ug/L	20	21.3	106	18-170	
Benzene	ug/L	10	10.1	101	78-123	
Bromobenzene	ug/L	10	10.6	106	83-122	
Bromochloromethane	ug/L	10	10.9	109	82-127	
Bromodichloromethane	ug/L	10	9.1	91	81-132	
Bromoform	ug/L	10	8.6	86	61-131	
Bromomethane	ug/L	10	15.9	159	58-136 L3	
Carbon disulfide	ug/L	20	14.4	72	58-114	
Carbon tetrachloride	ug/L	10	8.9	89	83-130	
Chlorobenzene	ug/L	10	10.3	103	89-117	
Chloroethane	ug/L	10	10.3	103	75-119	
Chloroform	ug/L	10	10.1	101	84-124	
Chloromethane	ug/L	10	8.2	82	50-117	
cis-1,2-Dichloroethene	ug/L	10	10.3	103	89-121	
cis-1,3-Dichloropropene	ug/L	10	11.3	113	78-132	
Dibromochloromethane	ug/L	10	9.1	91	83-128	
Dibromomethane	ug/L	10	9.6	96	78-133	
Dichlorodifluoromethane	ug/L	10	6.7	67	12-134	
Ethylbenzene	ug/L	10	10.6	106	76-122	
Hexachloro-1,3-butadiene	ug/L	10	10.4	104	73-146	
Isopropylbenzene (Cumene)	ug/L	10	8.2	82	75-120	
Methyl-tert-butyl ether	ug/L	10	9.9	99	67-130	
Methylene chloride	ug/L	10	10.9	109	74-142	
n-Butylbenzene	ug/L	10	9.9	99	75-135	
n-Propylbenzene	ug/L	10	9.8	98	83-126	
Naphthalene	ug/L	10	11.4	114	68-133	
p-Isopropyltoluene	ug/L	10	10.1	101	78-125	
sec-Butylbenzene	ug/L	10	9.9	99	76-131	
Styrene	ug/L	10	10.1	101	84-129	
tert-Butylbenzene	ug/L	10	9.6	96	77-132	
Tetrachloroethene	ug/L	10	10.3	103	74-134	
Toluene	ug/L	10	9.5	95	79-120	
trans-1,2-Dichloroethene	ug/L	10	10.3	103	84-136	
trans-1,3-Dichloropropene	ug/L	10	9.5	95	77-133	
Trichloroethene	ug/L	10	9.5	95	80-129	
Trichlorofluoromethane	ug/L	10	8.5	85	69-139	

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QUALITY CONTROL DATA

Project: Diaz Intermediate

Pace Project No.: 6033909

LABORATORY CONTROL SAMPLE: 274731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	10	8.9	89	59-120	
Xylene (Total)	ug/L	30	30.3	101	78-125	
1,2-Dichloroethane-d4 (S)	%			99	82-134	
4-Bromofluorobenzene (S)	%			101	78-122	
Dibromofluoromethane (S)	%			99	76-128	
Toluene-d8 (S)	%			95	83-109	

QUALITY CONTROL DATA

Project: Diaz Intermediate

Pace Project No.: 6033909

QC Batch: MPRP/5488

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Associated Lab Samples: 6033909001, 6033909002, 6033909003, 6033909004, 6033909005, 6033909006

METHOD BLANK: 274732

Associated Lab Samples: 6033909001, 6033909002, 6033909003, 6033909004, 6033909005, 6033909006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chromium	ug/L	ND	5.0	
Copper	ug/L	ND	10.0	
Lead	ug/L	ND	5.0	
Nickel	ug/L	ND	5.0	
Zinc	ug/L	ND	50.0	

LABORATORY CONTROL SAMPLE: 274733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	1000	965	97	80-120	
Copper	ug/L	1000	991	99	80-120	
Lead	ug/L	1000	1010	101	80-120	
Nickel	ug/L	1000	994	99	80-120	
Zinc	ug/L	1000	976	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 274734

274735

Parameter	Units	6033909001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	33.3	1000	1000	969	996	94	96	75-125	3	7	
Copper	ug/L	48.9	1000	1000	1050	1080	100	103	75-125	3	7	
Lead	ug/L	15.4	1000	1000	1010	1040	100	102	75-125	3	8	
Nickel	ug/L	399	1000	1000	1360	1400	96	100	75-125	3	7	
Zinc	ug/L	21500	1000	1000	21900	22900	40	138	75-125	4	8 M0	

QUALITY CONTROL DATA

Project: Diaz Intermediate

Pace Project No.: 6033909

QC Batch: WET/10698

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 6033909001, 6033909002, 6033909003, 6033909004, 6033909005, 6033909006

METHOD BLANK: 274833

Associated Lab Samples: 6033909001, 6033909002, 6033909003, 6033909004, 6033909005, 6033909006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Oil and Grease	mg/L	ND	5.0	

LABORATORY CONTROL SAMPLE: 274834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	42.5	106	78-114	

MATRIX SPIKE SAMPLE: 274836

Parameter	Units	5010679004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	42.6	39.7	93	78-114	

SAMPLE DUPLICATE: 274835

Parameter	Units	6033962001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	28.4	24.5	15	18	

QUALITY CONTROL DATA

Project: Diaz Intermediate

Pace Project No.: 6033909

QC Batch: MSV/12518

Analysis Method: EPA 5030B/8260

QC Batch Method: EPA 5030B/8260

Analysis Description: 8260 MSV Water 10 mL Purge

Associated Lab Samples: 6033909003, 6033909005

METHOD BLANK: 275004

Associated Lab Samples: 6033909003, 6033909005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,1-Trichloroethane	ug/L	ND	1.0	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,2-Trichloroethane	ug/L	ND	1.0	
1,1-Dichloroethane	ug/L	ND	1.0	
1,1-Dichloroethene	ug/L	ND	1.0	
1,1-Dichloropropene	ug/L	ND	1.0	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	
1,2,3-Trichloropropane	ug/L	ND	2.5	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	
1,2-Dichlorobenzene	ug/L	ND	1.0	
1,2-Dichloroethane	ug/L	ND	1.0	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	
1,2-Dichloropropane	ug/L	ND	1.0	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	
1,3-Dichlorobenzene	ug/L	ND	1.0	
1,3-Dichloropropane	ug/L	ND	1.0	
1,4-Dichlorobenzene	ug/L	ND	1.0	
2,2-Dichloropropane	ug/L	ND	1.0	
2-Butanone (MEK)	ug/L	ND	10.0	
2-Chlorotoluene	ug/L	ND	1.0	
2-Hexanone	ug/L	ND	10.0	
4-Chlorotoluene	ug/L	ND	1.0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	
Acetone	ug/L	ND	10.0	
Benzene	ug/L	ND	1.0	
Bromobenzene	ug/L	ND	1.0	
Bromochloromethane	ug/L	ND	1.0	
Bromodichloromethane	ug/L	ND	1.0	
Bromoform	ug/L	ND	1.0	
Bromomethane	ug/L	ND	1.0	
Carbon disulfide	ug/L	ND	5.0	
Carbon tetrachloride	ug/L	ND	1.0	
Chlorobenzene	ug/L	ND	1.0	
Chloroethane	ug/L	ND	1.0	
Chloroform	ug/L	ND	1.0	
Chloromethane	ug/L	ND	1.0	
cis-1,2-Dichloroethene	ug/L	ND	1.0	
cis-1,3-Dichloropropene	ug/L	ND	1.0	
Dibromochloromethane	ug/L	ND	1.0	

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QUALITY CONTROL DATA

Project: Diaz Intermediate

Pace Project No.: 6033909

METHOD BLANK: 275004

Associated Lab Samples: 6033909003, 6033909005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dibromomethane	ug/L	ND	1.0	
Dichlorodifluoromethane	ug/L	ND	1.0	
Ethylbenzene	ug/L	ND	1.0	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	
Methyl-tert-butyl ether	ug/L	ND	1.0	
Methylene chloride	ug/L	ND	1.0	
n-Butylbenzene	ug/L	ND	1.0	
n-Propylbenzene	ug/L	ND	1.0	
Naphthalene	ug/L	ND	10.0	
p-Isopropyltoluene	ug/L	ND	1.0	
sec-Butylbenzene	ug/L	ND	1.0	
Styrene	ug/L	ND	1.0	
tert-Butylbenzene	ug/L	ND	1.0	
Tetrachloroethene	ug/L	ND	1.0	
Toluene	ug/L	ND	1.0	
trans-1,2-Dichloroethene	ug/L	ND	1.0	
trans-1,3-Dichloropropene	ug/L	ND	1.0	
Trichloroethene	ug/L	ND	1.0	
Trichlorofluoromethane	ug/L	ND	1.0	
Vinyl chloride	ug/L	ND	1.0	
Xylene (Total)	ug/L	ND	3.0	
1,2-Dichloroethane-d4 (S)	%	101	82-134	
4-Bromofluorobenzene (S)	%	106	78-122	
Dibromofluoromethane (S)	%	99	76-128	
Toluene-d8 (S)	%	93	83-109	

LABORATORY CONTROL SAMPLE: 275005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	9.9	99	86-118	
1,1,1-Trichloroethane	ug/L	10	9.8	98	83-127	
1,1,2,2-Tetrachloroethane	ug/L	10	10.5	105	64-133	
1,1,2-Trichloroethane	ug/L	10	10.3	103	76-132	
1,1-Dichloroethane	ug/L	10	10.8	108	86-126	
1,1-Dichloroethene	ug/L	10	10.8	108	80-145	
1,1-Dichloropropene	ug/L	10	10.5	105	85-128	
1,2,3-Trichlorobenzene	ug/L	10	9.8	98	60-144	
1,2,3-Trichloropropane	ug/L	10	9.7	97	54-124	
1,2,4-Trichlorobenzene	ug/L	10	10.2	102	74-130	
1,2,4-Trimethylbenzene	ug/L	10	9.5	95	80-130	
1,2-Dibromo-3-chloropropane	ug/L	10	9.4	94	53-143	
1,2-Dibromoethane (EDB)	ug/L	10	9.7	97	77-121	
1,2-Dichlorobenzene	ug/L	10	10.2	102	80-125	
1,2-Dichloroethane	ug/L	10	10.3	103	80-130	

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QUALITY CONTROL DATA

Project: Diaz Intermediate

Pace Project No.: 6033909

LABORATORY CONTROL SAMPLE: 275005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	20	20.9	105	89-126	
1,2-Dichloropropane	ug/L	10	9.2	92	78-126	
1,3,5-Trimethylbenzene	ug/L	10	9.7	97	83-126	
1,3-Dichlorobenzene	ug/L	10	9.8	98	80-123	
1,3-Dichloropropane	ug/L	10	10.5	105	83-125	
1,4-Dichlorobenzene	ug/L	10	9.9	99	81-121	
2,2-Dichloropropane	ug/L	10	9.6	96	49-154	
2-Butanone (MEK)	ug/L	20	22.3	112	32-150	
2-Chlorotoluene	ug/L	10	9.5	95	86-123	
2-Hexanone	ug/L	20	19.5	97	35-150	
4-Chlorotoluene	ug/L	10	9.6	96	82-124	
4-Methyl-2-pentanone (MIBK)	ug/L	20	16.2	81	54-140	
Acetone	ug/L	20	19.4	97	18-170	
Benzene	ug/L	10	9.7	97	78-123	
Bromobenzene	ug/L	10	10.2	102	83-122	
Bromochloromethane	ug/L	10	10.9	109	82-127	
Bromodichloromethane	ug/L	10	9.3	93	81-132	
Bromoform	ug/L	10	8.5	85	61-131	
Bromomethane	ug/L	10	12.5	125	58-136	
Carbon disulfide	ug/L	20	15.1	76	58-114	
Carbon tetrachloride	ug/L	10	9.7	97	83-130	
Chlorobenzene	ug/L	10	9.9	99	89-117	
Chloroethane	ug/L	10	12.1	121	75-119	L3
Chloroform	ug/L	10	10.2	102	84-124	
Chloromethane	ug/L	10	8.3	83	50-117	
cis-1,2-Dichloroethene	ug/L	10	10.3	103	89-121	
cis-1,3-Dichloropropene	ug/L	10	11.1	111	78-132	
Dibromochloromethane	ug/L	10	9.9	99	83-128	
Dibromomethane	ug/L	10	9.5	95	78-133	
Dichlorodifluoromethane	ug/L	10	6.4	64	12-134	
Ethylbenzene	ug/L	10	10.0	100	76-122	
Hexachloro-1,3-butadiene	ug/L	10	11.7	117	73-146	
Isopropylbenzene (Cumene)	ug/L	10	8.6	86	75-120	
Methyl-tert-butyl ether	ug/L	10	9.1	91	67-130	
Methylene chloride	ug/L	10	11.1	111	74-142	
n-Butylbenzene	ug/L	10	10	100	75-135	
n-Propylbenzene	ug/L	10	10.2	102	83-126	
Naphthalene	ug/L	10	10.1	101	68-133	
p-Isopropyltoluene	ug/L	10	9.9	99	78-125	
sec-Butylbenzene	ug/L	10	10.2	102	76-131	
Styrene	ug/L	10	9.7	97	84-129	
tert-Butylbenzene	ug/L	10	9.6	96	77-132	
Tetrachloroethene	ug/L	10	10.7	107	74-134	
Toluene	ug/L	10	9.3	93	79-120	
trans-1,2-Dichloroethene	ug/L	10	10.6	106	84-136	
trans-1,3-Dichloropropene	ug/L	10	9.0	90	77-133	
Trichloroethene	ug/L	10	9.4	94	80-129	
Trichlorofluoromethane	ug/L	10	9.1	91	69-139	

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QUALITY CONTROL DATA

Project: Diaz Intermediate

Pace Project No.: 6033909

LABORATORY CONTROL SAMPLE: 275005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	10	9.3	93	59-120	
Xylene (Total)	ug/L	30	29.1	97	78-125	
1,2-Dichloroethane-d4 (S)	%			99	82-134	
4-Bromofluorobenzene (S)	%			98	78-122	
Dibromofluoromethane (S)	%			101	76-128	
Toluene-d8 (S)	%			97	83-109	

QUALITY CONTROL DATA

Project: Diaz Intermediate

Pace Project No.: 6033909

QC Batch: WETA/6129

Analysis Method: SM 4500-CN-E

QC Batch Method: SM 4500-CN-E

Analysis Description: 4500CNE Cyanide, Total

Associated Lab Samples: 6033909001, 6033909002, 6033909003, 6033909004, 6033909005, 6033909006

METHOD BLANK: 275585

Associated Lab Samples: 6033909001, 6033909002, 6033909003, 6033909004, 6033909005, 6033909006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cyanide	mg/L	ND	0.0050	

LABORATORY CONTROL SAMPLE: 275586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.10	100	73-124	

SAMPLE DUPLICATE: 275587

Parameter	Units	6033769002 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	0.013	0.011	13	31	

QUALITY CONTROL DATA

Project: Diaz Intermediate

Pace Project No.: 6033909

QC Batch: WET/10711

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 6033909005, 6033909006

METHOD BLANK: 275621

Associated Lab Samples: 6033909005, 6033909006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	

SAMPLE DUPLICATE: 275622

Parameter	Units	6033913001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	300	302	1	5	

SAMPLE DUPLICATE: 275623

Parameter	Units	6034023002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	206	202	2	5	

QUALITY CONTROL DATA

Project: Diaz Intermediate

Pace Project No.: 6033909

QC Batch: MSV/12549

Analysis Method: EPA 5030B/8260

QC Batch Method: EPA 5030B/8260

Analysis Description: 8260 MSV Water 10 mL Purge

Associated Lab Samples: 6033909001

METHOD BLANK: 276072

Associated Lab Samples: 6033909001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,1-Trichloroethane	ug/L	ND	1.0	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,2-Trichloroethane	ug/L	ND	1.0	
1,1-Dichloroethane	ug/L	ND	1.0	
1,1-Dichloroethene	ug/L	ND	1.0	
1,1-Dichloropropene	ug/L	ND	1.0	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	
1,2,3-Trichloropropane	ug/L	ND	2.5	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	
1,2-Dichlorobenzene	ug/L	ND	1.0	
1,2-Dichloroethane	ug/L	ND	1.0	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	
1,2-Dichloropropane	ug/L	ND	1.0	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	
1,3-Dichlorobenzene	ug/L	ND	1.0	
1,3-Dichloropropane	ug/L	ND	1.0	
1,4-Dichlorobenzene	ug/L	ND	1.0	
2,2-Dichloropropane	ug/L	ND	1.0	
2-Butanone (MEK)	ug/L	ND	10.0	
2-Chlorotoluene	ug/L	ND	1.0	
2-Hexanone	ug/L	ND	10.0	
4-Chlorotoluene	ug/L	ND	1.0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	
Acetone	ug/L	ND	10.0	
Benzene	ug/L	ND	1.0	
Bromobenzene	ug/L	ND	1.0	
Bromochloromethane	ug/L	ND	1.0	
Bromodichloromethane	ug/L	ND	1.0	
Bromoform	ug/L	ND	1.0	
Bromomethane	ug/L	ND	1.0	
Carbon disulfide	ug/L	ND	5.0	
Carbon tetrachloride	ug/L	ND	1.0	
Chlorobenzene	ug/L	ND	1.0	
Chloroethane	ug/L	ND	1.0	
Chloroform	ug/L	ND	1.0	
Chloromethane	ug/L	ND	1.0	
cis-1,2-Dichloroethene	ug/L	ND	1.0	
cis-1,3-Dichloropropene	ug/L	ND	1.0	
Dibromochloromethane	ug/L	ND	1.0	

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QUALITY CONTROL DATA

Project: Diaz Intermediate

Pace Project No.: 6033909

METHOD BLANK: 276072

Associated Lab Samples: 6033909001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dibromomethane	ug/L	ND	1.0	
Dichlorodifluoromethane	ug/L	ND	1.0	
Ethylbenzene	ug/L	ND	1.0	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	
Methyl-tert-butyl ether	ug/L	ND	1.0	
Methylene chloride	ug/L	ND	1.0	
n-Butylbenzene	ug/L	ND	1.0	
n-Propylbenzene	ug/L	ND	1.0	
Naphthalene	ug/L	ND	10.0	
p-Isopropyltoluene	ug/L	ND	1.0	
sec-Butylbenzene	ug/L	ND	1.0	
Styrene	ug/L	ND	1.0	
tert-Butylbenzene	ug/L	ND	1.0	
Tetrachloroethene	ug/L	ND	1.0	
Toluene	ug/L	ND	1.0	
trans-1,2-Dichloroethene	ug/L	ND	1.0	
trans-1,3-Dichloropropene	ug/L	ND	1.0	
Trichloroethene	ug/L	ND	1.0	
Trichlorofluoromethane	ug/L	ND	1.0	
Vinyl chloride	ug/L	ND	1.0	
Xylene (Total)	ug/L	ND	3.0	
1,2-Dichloroethane-d4 (S)	%	97	82-134	
4-Bromofluorobenzene (S)	%	107	78-122	
Dibromofluoromethane (S)	%	96	76-128	
Toluene-d8 (S)	%	98	83-109	

LABORATORY CONTROL SAMPLE: 276073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	9.9	99	86-118	
1,1,1-Trichloroethane	ug/L	10	9.8	98	83-127	
1,1,2,2-Tetrachloroethane	ug/L	10	10	100	64-133	
1,1,2-Trichloroethane	ug/L	10	10.9	109	76-132	
1,1-Dichloroethane	ug/L	10	10.6	106	86-126	
1,1-Dichloroethene	ug/L	10	10.1	101	80-145	
1,1-Dichloropropene	ug/L	10	10.2	102	85-128	
1,2,3-Trichlorobenzene	ug/L	10	10.2	102	60-144	
1,2,3-Trichloropropane	ug/L	10	10.8	108	54-124	
1,2,4-Trichlorobenzene	ug/L	10	10.3	103	74-130	
1,2,4-Trimethylbenzene	ug/L	10	10	100	80-130	
1,2-Dibromo-3-chloropropane	ug/L	10	9.7	97	53-143	
1,2-Dibromoethane (EDB)	ug/L	10	10.1	101	77-121	
1,2-Dichlorobenzene	ug/L	10	10.3	103	80-125	
1,2-Dichloroethane	ug/L	10	10.4	104	80-130	

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QUALITY CONTROL DATA

Project: Diaz Intermediate

Pace Project No.: 6033909

LABORATORY CONTROL SAMPLE: 276073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	20	20.6	103	89-126	
1,2-Dichloropropane	ug/L	10	9.8	98	78-126	
1,3,5-Trimethylbenzene	ug/L	10	9.8	98	83-126	
1,3-Dichlorobenzene	ug/L	10	10.1	101	80-123	
1,3-Dichloropropane	ug/L	10	10.5	105	83-125	
1,4-Dichlorobenzene	ug/L	10	10.1	101	81-121	
2,2-Dichloropropane	ug/L	10	8.5	85	49-154	
2-Butanone (MEK)	ug/L	20	22.1	111	32-150	
2-Chlorotoluene	ug/L	10	9.9	99	86-123	
2-Hexanone	ug/L	20	21.0	105	35-150	
4-Chlorotoluene	ug/L	10	9.6	96	82-124	
4-Methyl-2-pentanone (MIBK)	ug/L	20	17.4	87	54-140	
Acetone	ug/L	20	21.3	106	18-170	
Benzene	ug/L	10	10.1	101	78-123	
Bromobenzene	ug/L	10	10.6	106	83-122	
Bromochloromethane	ug/L	10	10.9	109	82-127	
Bromodichloromethane	ug/L	10	9.1	91	81-132	
Bromoform	ug/L	10	8.6	86	61-131	
Bromomethane	ug/L	10	15.9	159	58-136 L3	
Carbon disulfide	ug/L	20	14.4	72	58-114	
Carbon tetrachloride	ug/L	10	8.9	89	83-130	
Chlorobenzene	ug/L	10	10.3	103	89-117	
Chloroethane	ug/L	10	10.3	103	75-119	
Chloroform	ug/L	10	10.1	101	84-124	
Chloromethane	ug/L	10	8.2	82	50-117	
cis-1,2-Dichloroethene	ug/L	10	10.3	103	89-121	
cis-1,3-Dichloropropene	ug/L	10	11.3	113	78-132	
Dibromochloromethane	ug/L	10	9.1	91	83-128	
Dibromomethane	ug/L	10	9.6	96	78-133	
Dichlorodifluoromethane	ug/L	10	6.7	67	12-134	
Ethylbenzene	ug/L	10	10.6	106	76-122	
Hexachloro-1,3-butadiene	ug/L	10	10.4	104	73-146	
Isopropylbenzene (Cumene)	ug/L	10	8.2	82	75-120	
Methyl-tert-butyl ether	ug/L	10	9.9	99	67-130	
Methylene chloride	ug/L	10	10.9	109	74-142	
n-Butylbenzene	ug/L	10	9.9	99	75-135	
n-Propylbenzene	ug/L	10	9.8	98	83-126	
Naphthalene	ug/L	10	11.4	114	68-133	
p-Isopropyltoluene	ug/L	10	10.1	101	78-125	
sec-Butylbenzene	ug/L	10	9.9	99	76-131	
Styrene	ug/L	10	10.1	101	84-129	
tert-Butylbenzene	ug/L	10	9.6	96	77-132	
Tetrachloroethene	ug/L	10	10.3	103	74-134	
Toluene	ug/L	10	9.5	95	79-120	
trans-1,2-Dichloroethene	ug/L	10	10.3	103	84-136	
trans-1,3-Dichloropropene	ug/L	10	9.5	95	77-133	
Trichloroethene	ug/L	10	9.5	95	80-129	
Trichlorofluoromethane	ug/L	10	8.5	85	69-139	

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QUALITY CONTROL DATA

Project: Diaz Intermediate

Pace Project No.: 6033909

LABORATORY CONTROL SAMPLE: 276073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	10	8.9	89	59-120	
Xylene (Total)	ug/L	30	30.3	101	78-125	
1,2-Dichloroethane-d4 (S)	%			99	82-134	
4-Bromofluorobenzene (S)	%			101	78-122	
Dibromofluoromethane (S)	%			99	76-128	
Toluene-d8 (S)	%			95	83-109	

QUALIFIERS

Project: Diaz Intermediate
Pace Project No.: 6033909

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

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LABORATORIES

PASI-K Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/12510

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/12518

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/12549

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis). Sample appears to have elevated concentrations of 4-Bromofluorobenzene (laboratory surrogate).
C9	Common Laboratory Contaminant.
H6	Analysis initiated more than 15 minutes after sample collection.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery was outside laboratory control limits.
R1	RPD value was outside control limits.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Diaz Intermediate
Pace Project No.: 6033909

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
6033909001	DIC-SW01	SM 4500-H+B	WET/10681		
6033909002	DIC-SW02	SM 4500-H+B	WET/10681		
6033909003	DIC-SW03	SM 4500-H+B	WET/10681		
6033909004	DIC-SW04	SM 4500-H+B	WET/10681		
6033909005	DIC-SW05	SM 4500-H+B	WET/10681		
6033909006	DIC-SW06	SM 4500-H+B	WET/10681		
6033909001	DIC-SW01	SM 5210B	WET/10684	SM 5210B	WET/10689
6033909002	DIC-SW02	SM 5210B	WET/10684	SM 5210B	WET/10689
6033909003	DIC-SW03	SM 5210B	WET/10684	SM 5210B	WET/10689
6033909004	DIC-SW04	SM 5210B	WET/10684	SM 5210B	WET/10689
6033909005	DIC-SW05	SM 5210B	WET/10684	SM 5210B	WET/10689
6033909006	DIC-SW06	SM 5210B	WET/10684	SM 5210B	WET/10689
6033909001	DIC-SW01	SM 2540D	WET/10696		
6033909002	DIC-SW02	SM 2540D	WET/10696		
6033909003	DIC-SW03	SM 2540D	WET/10696		
6033909004	DIC-SW04	SM 2540D	WET/10696		
6033909002	DIC-SW02	EPA 5030B/8260	MSV/12510		
6033909004	DIC-SW04	EPA 5030B/8260	MSV/12510		
6033909006	DIC-SW06	EPA 5030B/8260	MSV/12510		
6033909007	TRIP BLANK	EPA 5030B/8260	MSV/12510		
6033909001	DIC-SW01	EPA 3010	MPRP/5488	EPA 6010	ICP/4837
6033909002	DIC-SW02	EPA 3010	MPRP/5488	EPA 6010	ICP/4837
6033909003	DIC-SW03	EPA 3010	MPRP/5488	EPA 6010	ICP/4837
6033909004	DIC-SW04	EPA 3010	MPRP/5488	EPA 6010	ICP/4837
6033909005	DIC-SW05	EPA 3010	MPRP/5488	EPA 6010	ICP/4837
6033909006	DIC-SW06	EPA 3010	MPRP/5488	EPA 6010	ICP/4837
6033909001	DIC-SW01	EPA 1664A	WET/10698		
6033909002	DIC-SW02	EPA 1664A	WET/10698		
6033909003	DIC-SW03	EPA 1664A	WET/10698		
6033909004	DIC-SW04	EPA 1664A	WET/10698		
6033909005	DIC-SW05	EPA 1664A	WET/10698		
6033909006	DIC-SW06	EPA 1664A	WET/10698		
6033909003	DIC-SW03	EPA 5030B/8260	MSV/12518		
6033909005	DIC-SW05	EPA 5030B/8260	MSV/12518		
6033909001	DIC-SW01	SM 4500-CN-E	WETA/6129		
6033909002	DIC-SW02	SM 4500-CN-E	WETA/6129		
6033909003	DIC-SW03	SM 4500-CN-E	WETA/6129		
6033909004	DIC-SW04	SM 4500-CN-E	WETA/6129		
6033909005	DIC-SW05	SM 4500-CN-E	WETA/6129		
6033909006	DIC-SW06	SM 4500-CN-E	WETA/6129		
6033909005	DIC-SW05	SM 2540D	WET/10711		
6033909006	DIC-SW06	SM 2540D	WET/10711		
6033909001	DIC-SW01	EPA 5030B/8260	MSV/12549		

APPENDIX B

DIAZ INTERMEDIATES CORP - ESTIMATED CONTAINER INVENTORY

LOCATION	CONTAINER SIZE (GAL)	VOLUME (GAL)	CHEMICAL NAME	QUANTITY
Warehouse	55	1760	Aluminum Chloride, Anhydrous	32
Warehouse	55	825	Anisole CR3	15
Warehouse	300	3300	m-Bromoanisole	11
Warehouse	55	55	o-Bromochlorobenzene	1
Warehouse	5	900	p-Bromochlorobenzene	180
Warehouse	55	110	o-Bromofluorobenzene	2
Warehouse	55	2860	2-Bromopyridine (Tech)	52
Warehouse	5	5	Bromomethylbenzene (Pure)	1
Warehouse	55	55	Bromomethyl Benzene (Pure)	1
Warehouse	55	55	Bromomethyl Benzene (Wet/Pure)	1
Warehouse	5	10	m-Bromophenol	2
Warehouse	55	55	2-Bromopyridine	1
Warehouse	5	10	2-Bromopyridine	2
Warehouse	5	5	o-Bromotoluene	1
Warehouse	55	55	o-Bromotoluene (Pure)	1
Warehouse	55	42	Combustible Liquid	1
Warehouse	5	60	3,5-Dianisole (Wet/Pure)	12
Warehouse	55	55	3,5-Dibromoanisole (Wet/Pure)	1
Warehouse	55	55	Diazene-42	1
Warehouse	55	1265	Dibromobenzene (R) for Debromo	23
Warehouse	5	5	m-Dibromobenzene HP	1
Warehouse	5	225	p-Dibromobenzene (8% to 12% TBB)	45
Warehouse	5	675	p-Dibromobenzene (99% <8% TBB)	135
Warehouse	5	2875	p-Dibromobenzene (99% < 0.8% TBB/PDBB)	575
Warehouse	5	25	p-Dibromobenzene (Pure)	5
Warehouse	5	95	p-Dibromobenzene (Wet/Pure) Combustible	19
Warehouse	5	105	Ferric Chloride, Ahhydrous	21
Warehouse	55	55	Fluoroanisole	1
Warehouse	5	10	m-Fluoroanisole	2
Warehouse	30	30	p-Fluoroanisole	1
Warehouse	55	495	Fluorobenzene	9
Warehouse	55	55	m-Fluorobenzene	1
Warehouse	55	55	Hydrobromic Acid	1
Warehouse	55	110	n-Heptyl Bromide	2
Warehouse	55	1320	Methanol	24
Warehouse	55	165	n-Propanol (Fresh)	3
Warehouse	275	3300	n-Propyl Bromide	12
Warehouse	5	5	Parabromotoluene (Pure)	1
Warehouse	5	10	Phosphorous, Amorphous, Red Phosphorous (99% mim.)	2
Warehouse	55	220	Phosphorous, Amorphous, Red Phosphorous (99% mim.)	4
Warehouse	55	55	RQ Hazardous Waste Soil N.O.S. (Benzene)	1
Warehouse	55	55	1,2,4 Tribromobenzene (96%) TBB	1
Warehouse	55	495	Toluene Recycled	9
Warehouse	55	42	Tol (R) Spill 8-18-06, Flammable Hazwaste	1
Warehouse	55	55	142 Solvent	1
Warehouse	55	1485	Unknown	27
Warehouse	30	510	Unknown	17
Dock Area	250	563	Caustic Soda, 50%	3
Dock Area	55	1120	DBFB/Dibromotoluene Mix	23
Dock Area	55	0	Hydrochloric Acid, BE Muriatic Acid, Technical	29
Dock Area	55	660	Iron Sludge Filter Cake - Non-Hazardous Waste	12
Dock Area	55	220	m-Bromofluorobenzene (c) 65%	4
Dock Area	55	220	x-Bromofluorobenzene Isomer Mix (XBT)	4
Dock Area	55	715	m-Bromofluorobenzene, 99% technical	13
Dock Area	55	662	x-Bromotoluene (C) Crude	13
Dock Area	55	165	x-Bromotoluene Bottoms	3

DIAZ INTERMEDIATES CORP - ESTIMATED CONTAINER INVENTORY

LOCATION	CONTAINER SIZE (GAL)	VOLUME (GAL)	CHEMICAL NAME	QUANTITY
Fork Lift Path	275	1100	Area A Pit Water (Zinc)	4
Fork Lift Path	275	1035	m-Bromofluorobenzne 65% Crude	4
Fork Lift Path	55	165	MBFB 65 (Crude)	3
Fork Lift Path	55	275	MBFB 65 (WP) Wet Pure	5
Fork Lift Path	55	1265	DBFB/Dibromotoluene mix	23
Fork Lift Path	275	138	MBFB (H) Non-distilled Water	1
Fork Lift Path	275	138	Fractionation MBFB 999 (WP)	1
Fork Lift Path	55	440	DBFB/Dibromotoluene Mix (Dibromotoluenes)	8
Fork Lift Path	55	165	MFB Waste Pads and Filter	3
Fork Lift Path	55	110	Zinc Recovery Solids Mud	2
Fork Lift Path	55	55	MBFB65 Zorb All Clean-Up	1
Fork Lift Path	55	165	MBFB65 (WP) (Wet/Pure)	3
Fork Lift Path	55	220	Mix Organics (R) Overhead	4
Fork Lift Path	55	220	Methanol	4
Fork Lift Path	55	220	MBFB (H) Non-distilled water	4
Fork Lift Path	55	220	MBFB (H) Overhead Water	4
Fork Lift Path	275	2475	MBFB65 (Wet/Pure)	9
Fork Lift Path	275	756	m-Bromofluorobenzene (65%) Crude	3
Fork Lift Path	275	550	MBFB65 © Crude	2
Fork Lift Path	55	330	x-Bromotoluene (C) Crude	6
Fork Lift Path	55	2695	x-Bromotoluene (T) Bottoms	49
Old Tank Farm (IT01)	9,540	378	Benzene	1
Old Tank Farm (IT02)	11,248	8280	Aqueous Waste	1
Old Tank Farm (IT03)	9,534	8514	p-Bromofluorobenzene	1
Old Tank Farm (IT04)	11,248	9775	Hydrobromic Acid	1
New Tank Farm (IT05)	11,656	10209	Hydrobromic Acid	1
New Tank Farm (IT06)	11,656	11104	Hydrobromic Acid	1
New Tank Farm (IT07)	11,656	10746	Hydrobromic Acid	1
New Tank Farm (IT08)	11,656	7283	Hydrobromic Acid	1
Drum Pad Area	55	55	Bromobenzene Bottoms	1
Drum Pad Area	55	220	Bromobenzene Extraction	4
Drum Pad Area	55	110	Bromobenzene Debromo - Extraction	2
Drum Pad Area	55	330	Bromobenzene PDDb Extraction	6
Drum Pad Area	55	440	Bromobenzene Pot Bottoms	8
Drum Pad Area	55	275	Bromobenzene Process Waters	5
Drum Pad Area	55	550	Bromobenzene (Recycle)	10
Drum Pad Area	55	110	Dibromobenzene (R) for Debromo	2
Drum Pad Area	55	220	Bromobenzene (Wet/Pure)	4
Drum Pad Area	55	495	Bromobenzene (Z) with High DBB/TBB	9
Drum Pad Area	55	660	DBFB/Dibromotoluene Mix (Dibromotoluenes)	12
Drum Pad Area	275	414	DBFB/Dibromotoluene Mix (Dibromotoluenes)	2
Drum Pad Area	55	2200	DBFB/Dibromotoluene Mix (Technical Mix)	40
Drum Pad Area	250	376	DBFB/Dibromotoluene Mix (Technical Mix)	2
Drum Pad Area	275	414	DBFB/Dibromotoluene Mix (Technical Mix)	2
Drum Pad Area	250	1128	DBFB/Dibromotoluene H2O (Undistilled)	6
Drum Pad Area	275	250	DBT (H)	1
Drum Pad Area	275	550	Dibromotoluenes H2O Undistilled	2
Drum Pad Area	55	330	Fluorobenzene (Recovered) Acidic	6
Drum Pad Area	55	110	Fluorobenzene (Recycled)	2
Drum Pad Area	55	275	Fractionation	5
Drum Pad Area	250	564	Fractionation	3
Drum Pad Area	275	275	Fractionation	1
Drum Pad Area	55	55	HBR SG>1.1	1
Drum Pad Area	55	1430	HCl/HBr Mix SC>1.1	26
Drum Pad Area	55	1705	Hydrobromic Acid	31
Drum Pad Area	55	495	Hydrobromic Acid (48%)	9

DIAZ INTERMEDIATES CORP - ESTIMATED CONTAINER INVENTORY

LOCATION	CONTAINER SIZE (GAL)	VOLUME (GAL)	CHEMICAL NAME	QUANTITY
Drum Pad Area	275	414	Hydrobromic Acid (48%) DINT Bottoms from 2BP	2
Drum Pad Area	55	550	Hydrobromic Acid (Low %)	10
Drum Pad Area	55	660	HCl (20%) SG 1.08-1.13 from 2BP	12
Drum Pad Area	55	330	Hydrochloric Acid	6
Drum Pad Area	55	3685	Iron Sludge Filter Cake	67
Drum Pad Area	275	1789	MBFB (H) Non-distilled Water	7
Drum Pad Area	250	751	MBFB (H) Non-distilled Water	4
Drum Pad Area	55	660	MBFB (H) Non-distilled Water	12
Drum Pad Area	55	220	MBFB (H) Overhead Water, MBFB (H)	4
Drum Pad Area	275	550	MBFB (H) Water	2
Drum Pad Area	55	550	m-Bromoaniside	10
Drum Pad Area	55	110	m-Bromoaniside (Crude)	2
Drum Pad Area	55	110	m-Bromoaniside (High Point)	2
Drum Pad Area	55	1650	m-Bromoaniside (Technical)	30
Drum Pad Area	55	1540	m-Bromoaniside (Wet/Pure)	28
Drum Pad Area	55	605	m-Bromoaniside (Wet/Pure) Bottoms	11
Drum Pad Area	55	330	m-Bromoanisole,	6
Drum Pad Area	55	715	m-Bromoanisole (Technical)	13
Drum Pad Area	55	1595	m-Bromoanisole (Wet/Pure)	29
Drum Pad Area	250	500	m-Bromofluorobenzene (65%) Crude	2
Drum Pad Area	55	2750	m-Bromofluorobenzene (R) Recycle	50
Drum Pad Area	55	55	m-Bromofluorobenzene (99%) Technical	1
Drum Pad Area	250	250	m-Bromofluorobenzene (Wet/Pure)	1
Drum Pad Area	55	275	Methanol	5
Drum Pad Area	275	3933	Methanol	19
Drum Pad Area	55	550	n-Propyl bromide (Crude)	10
Drum Pad Area	55	55	n-Propyl Bromide (Wet/Pure))	1
Drum Pad Area	55	55	n-Propyl Bromide (Pure)	1
Drum Pad Area	55	1320	Propyl Bromide (Tech)	24
Drum Pad Area	55	55	p-Dibromobenzene	1
Drum Pad Area	275	207	Toluene Water Non-distilled	1
Drum Pad Area	55	165	Toluene Recycle	3
Drum Pad Area	250	125	Toluene Recycle	1
Drum Pad Area	275	1307	Toluene (Wet/Pure)	5
Drum Pad Area	55	330	Toluene (Wet/Pure)	6
Drum Pad Area	55	165	Unknown	3
Drum Pad Area	55	220	Weak Hydrochloric SG<1.08 from MBFB	4
Drum Pad Area	55	550	x-Bromotoluene (T) Bottoms	10
Process Area - 2nd Floor	55	55	AS05 Cold Trap	1
Process Area - 2nd Floor	55	55	Benzene	1
Process Area - 2nd Floor	55	110	m-Bromoanisole Overhead Water	2
Process Area - 2nd Floor	55	110	DRYCID	2
Process Area - 2nd Floor	20	20	HCl and Water	1
Process Area - 2nd Floor	55	110	20% HCl SG 1.08-1.13 from 2BP	2
Process Area - 2nd Floor	55	110	Hydrobromic Acid (48%)	2
Process Area - 2nd Floor	5	45	MacDermid Canning TC 7621-3	9
Process Area - 2nd Floor	5	40	MacDermid Spall-Gard II	8
Process Area - 2nd Floor	20	20	Magnesium Sulfate	1
Process Area - 2nd Floor	5	3	Propyl Bromide (Tech)	1
Process Area - 2nd Floor	15	15	Soda Ash	1
Process Area - 2nd Floor	55	220	Unknown	2
South Pad	275	138	m-Bromoanisole in Process Water	1
South Pad	55	28	m-Bromofluorobenzene (65) Crude	1
South Pad	55	605	x-Bromotoluene (c) Crude	11
South Pad	55	1320	DBFB/Dibromotoluene Mix (Dibromotoluene)	24
South Pad	55	660	HCL/HBR Mix SG > 1.1	12

DIAZ INTERMEDIATES CORP. - ESTIMATED CONTAINER INVENTORY

LOCATION	CONTAINER SIZE (GAL)	VOLUME (GAL)	CHEMICAL NAME	QUANTITY
South Pad	55	153	MBFB (H) Non-distilled Water	4
South Pad	55	55	MBFB (H) Overhead Water	1
South Pad	275	825	Methanol	3
South Pad	2,000	4000	Unknown	2
North Pad	275	0	Area A Pitwater Zinc	2
North Pad	55	165	Bottom Purge	3
North Pad	55	880	p-Bromoaniside (Wet/Pure)	16
North Pad	55	110	p-Bromoaniside (Recycle)	2
North Pad	275	0	m-Bromofluorobenzene (65%) Crude	1
North Pad	55	55	DBFB/Dibromofluorobenzene (Technical)	1
North Pad	55	110	DBFB/Dibromotoluene Mix (Dibromotoluenes)	2
North Pad	55	55	DBFB/Dibromotoluene Mix (Technical)	1
North Pad	55	55	MBFB (H) non-distilled H2O	1
North Pad	55	275	Mixed Organics Drum Rinses	5
North Pad	55	990	Mixed Organics Neutralized	18
North Pad	55	275	Mixed Organics OVHD	5
North Pad	55	165	Mixed Organics (R) Overhead	3
North Pad	55	440	Mixed Organics Water	8
North Pad	55	165	Toluene Wet Pure	3
North Pad	55	220	Unknown	4
Tank Farm Pad	55	55	Bromobenzene	1
Tank Farm Pad	55	55	Bromobenzene PDBB extraction	1
Tank Farm Pad	55	55	Bromobenzene Process Waste	1
Tank Farm Pad	55	55	Bromobenzene (Recycled)	1
Tank Farm Pad	55	220	p-Bromoanisole	4
Tank Farm Pad	55	778	p-Bromoanisole (Recycle)	14
Tank Farm Pad	55	220	p-Bromoanisole (Wet Pure)	4
Tank Farm Pad	55	605	x-Bromotoluene (T) Bottoms	11
Tank Farm Pad	55	55	x-Bromotoluene (C) Crude	1
Tank Farm Pad	55	3135	DBFB/Dibromotoluene Mix (Dibromotoluenes)	57
Tank Farm Pad	55	55	DBFB/Dibromotoluene Mix (Technical Mix)	1
Tank Farm Pad	55	220	MBFB (H) Non-distilled Water	4
Tank Farm Pad	55	165	m-Dibromobenzene	3
Tank Farm Pad	55	55	PBS REPACK	1
Tank Farm Pad	55	55	PBS (Wet/Pure)	1
Tank Farm Pad	55	220	Process Tars DBFB/Dibromotoluene Mix	4
Tank Farm Pad	55	220	Toluene (Wet/Pure)	4
Tank Farm Pad	55	385	Unknown	7
Tank Farm Pad	85	85	Unknown	1
Bulk Truck Loading Pad	250	250	Area A Pit Water (Zinc)	1
Bulk Truck Loading Pad	55	55	Bromobenzene Pot Bottoms	1
Bulk Truck Loading Pad	55	55	Bromofluorobenzene Technical (MBFB 99T)	1
Bulk Truck Loading Pad	55	330	Bromotoluene Mix (Technical)	6
Bulk Truck Loading Pad	55	880	DBFB Dibromotoluenes	16
Bulk Truck Loading Pad	55	385	DBFB/Dibromotoluene Mix (Technical Mix)	7
Bulk Truck Loading Pad	55	110	DBFB/Dibromotoluene Mix	2
Bulk Truck Loading Pad	55	715	DBFB/Dibromotoluene Mix (Dibromotoluenes)	13
Bulk Truck Loading Pad	55	605	Fractionation MBFB99 (WP)	11
Bulk Truck Loading Pad	250	64	Fractionation MBFB99 (WP)	1
Bulk Truck Loading Pad	250	250	H2O from TOL (R)	1
Bulk Truck Loading Pad	55	165	Hydrobromic Acid	3
Bulk Truck Loading Pad	250	250	Hydrobromic Acid 48% DINT Bottom from 2BP HBR (48)	1
Bulk Truck Loading Pad	275	825	Hydrobromic Acid 48% DINT Bottom from 2BP HBR (48)	3
Bulk Truck Loading Pad	55	440	Hydrochloric Acid	8
Bulk Truck Loading Pad	55	1540	HCL HBR Mix SG>1.1	28
Bulk Truck Loading Pad	55	990	MBFB Dibromotoluenes	18

DIAZ INTERMEDIATES CORP - ESTIMATED CONTAINER INVENTORY

LOCATION	CONTAINER SIZE (GAL)	VOLUME (GAL)	CHEMICAL NAME	QUANTITY
Bulk Truck Loading Pad	55	165	MBFB 65 WP (Wet/Pure))	3
Bulk Truck Loading Pad	55	220	m-Bromofluorobenzene 99% (Technical)	4
Bulk Truck Loading Pad	55	110	n-Amyl Alcohol (Pure) Overhead	2
Bulk Truck Loading Pad	55	715	n-Amyl Bromide (Pure)	13
Bulk Truck Loading Pad	55	55	n-Amyl Bromide (Technical)	1
Bulk Truck Loading Pad	55	220	n-Bromofluoro Benzene 99% (Technical)	4
Bulk Truck Loading Pad	55	110	n-Butanol (Recovered)	2
Bulk Truck Loading Pad	55	220	n-Butanol (Wet)	4
Bulk Truck Loading Pad	55	165	n-Butyl Bromide (Technical)	3
Bulk Truck Loading Pad	55	220	n-Butyl Bromide (Recovered)	4
Bulk Truck Loading Pad	5	4	n-Butyl Bromide (Recovered)	1
Bulk Truck Loading Pad	85	55	Salvage Drum-Unknown Drum Inside	1
Bulk Truck Loading Pad	55	605	Toluene (Wet/Pure)	11
Bulk Truck Loading Pad	55	55	Unknown	1
Bulk Truck Loading Pad	55	55	Weak HBR SG>1.13 from 2BP HBR (R)	1
Bulk Truck Loading Pad	55	55	x-Bromotoluene Bottoms	1
Bulk Truck Loading Pad	55	770	x-Bromotoluenes (T) Bottoms	14
Shed East of Process Area	80	20	Continuum AEC 214, Corrossion Inhibitor	1
Shed East of Process Area	80	20	Spectrus NX108, 2,2 Dibromo-3 Nitrilopropionomide	1
Railroad Tank Car-GATX22264	16762	0	p-Bromofluorobenzene	1
Railroad Tank Car-GATX11154	23563	3200	x-Bromotoulene (T) Technical	1
Railroad Tank Car-GATX20358	16300	5800	Fluorobenzene	1
Railroad Tank Car-GATX49181	23509	16000	Bromotoulene (T) Technical	1
Railroad Tank Car-GATX28446	23509	7900	Fluorobenzene (Dupont)	1
Railroad Tank Car-GATX20364	23509	0	p-Bromofluorobenzene	1
Railroad Tank Car-GATX49420	16300	800	p-Bromotoulene (C) Crude	1
TOTAL ESTIMATED VOLUME (GAL)		215935	TOTAL ESTIMATED CONTAINER QUANTITY	2612